

Steelcase Context Freestanding Systems Furniture or Equal Salient Characteristic

VA Palo Alto Health Care System
3801 Miranda Ave Palo Alto, CA 94304
Project: Building 100 Surgical Services B3
Transaction Number: 640-16-2-046-0146

1. General Requirements: Freestanding furniture versus Panel Dependant Furniture

- a. Core units shall be fully assembled to save installation time and labor costs (exception: Reception core units)
- b. Adjacent units shall be bolted together so that reconfiguration involves minimal time and labor
- c. Privacy, storage, and power elements shall be added or removed from the core units without disrupting the surrounding furniture.
- d. Unloaded core units and tables shall be designed to be dragged across a floor to impact 90 degree sharp edge thresholds obstructions at least 1/4" high without damage. Units with 50 lb. load shall not fail when impacting same threshold at 45 degree angle.
- e. Pedestals shall fit easily under most core units and shall not support the freestanding work surface, so they can be moved without affecting the core unit.
- f. Work surfaces shall be capable of being suspended from similar width standard panel system modules or supports.
- g. Line shall include freestanding storage products to compliment this line in dimensions, designs and finishes. Fixed and mobile pedestals, lateral files, storage cabinets, wardrobes and bookcases.

2. Warranty Requirements

Manufacturer must offer a lifetime warranty that product is free from defects in materials and workmanship (includes shipping, parts and labor for the repair or replacement of defective item.)

- **Exceptions:**

- 12 years for: Laminate, wood veneer and solid surface, casegoods, all standard vertical surface textiles.
- Paint colorfastness shall have a 5 year warranty.

3. Technical Specification and Code Requirements

- a. Core Units and tables shall meet or exceed ANSI/BIFMA X 5.5-1998 Desk/Table Product Tests.
- b. Overhead storage shall meet or exceed ANSI/BIFMA X 5.9-2004.

- c. Shall meet or exceed UL 723 surface burning testing
- d. Shall be designed for application in compliance with NFPA 70 National Electric Code
- e. Work surface edge profile, on edges shall be designed to come into contact with users' wrists, comply with ISO 9241-5 (1998) Section 5.4.4, ANSI/HFES-100 (2008) section 8.3.1.4, BIFMA G1 (2002) Section 9, and CSA-Z412 (2000) section 7.5.12.
- f. Standard high-pressure laminates shall meet or exceed NEMA LD3-2005 High-Pressure Decorative Laminate standards.
- g. When applied according to published application guidelines, panel-mounted or freestanding work surfaces shall not sag more than 1/240 of the total work surface length when subjected to a load of 200 pounds distributed via a rigid 18" x 36" board located flush to the front edge of the work surface at its apparent weakest point.
- h. Panel-mounted or freestanding work surfaces shall sustain no structural damage when subjected to the impact of a 225 pound weight bag, 16" in diameter, dropped from a height of 2" onto the work surface, with the edge of the weight bag located 1" in from the front edge of the work surface at its apparent weakest point.
- i. Core-mounted screen shall meet the following minimum acoustic ratings per ASTM C423-02a and E795-00: NRC of .35, STC of 26.
- j. Tackable screens comply with National Fire Protection Association (NFPA) 101 Life Safety Code®. This code addresses those construction, protection, and occupancy features necessary to minimize danger to life from the effects of fire, including smoke, heat, and toxic gases created during a fire.

4. **Environmental Features**

- Materials Chemistry
 - a. Paint shall be VOC-free powder coat type. Powder coat paint overspray shall be collected, reprocessed, and used on interior components
 - b. Fabrics shall meet MBDC Cradle-to-Cradle Gold sustainable design certification. Fabrics shall contain less than 100 parts per million of any heavy metals of concern, which includes antimony, which is traditionally found in polyester fabrics.
- Life Cycle Assessment
 - a. In lieu of disposing furniture in a landfill at the end of its useful life, the Manufacturer shall provide opportunities for the Customer to recycle resell or refurbish their used furniture.
 - b. Recycle Content and Recyclability
 - c. Powder coat paint overspray used in the finishing process of this product shall be collected by the Manufacturer, reprocessed, and used on interior components.
 - d. Shall be constructed of up to 40% recycled – 8% post consumer and 32% pre consumer content.

- **Certification**

- a. Furniture shall be certified to meet the requirements of ANSI/BIFMA X7.1 *Standard for Formaldehyde and TVOC Emissions of Low-emitting Office Furniture Systems and Seating* in accordance with the open plan or private office exposure scenarios defined in ANSI/BIFMA M7.1 *Standard Test Method for Determining VOC Emissions from Office Furniture Systems, Components, and Seating*. Certification shall be provided by an organization independent of the manufacturer as well as from the testing laboratory, in accordance with the requirements of ISO/IEC Guide 65 *General requirements for bodies operating product certification systems*.
- b. SCS IndoorAdvantage™ Certification for indoor air quality. **These certifications must be submitted with bidder's response.**

5. **Freestanding Core Units Include: Straight, Corners, Extended Corner, Jetty**

- Height : 28-1/2"
- Widths:
 - Straight widths: 24", 30", 36", 42", 48", 54", 60", 72"
 - Corner widths: 42", 48", 60", 72"
- Depth : 24", 30"
- Standards Included:
 - a. Work surface shall feature a wood core and finished thickness that is at least 1-3/16" for durability.
 - b. Top surface of work surface shall be covered with high pressure laminate or wood veneer.
 - c. Front user edge of work surface shall be finished with a durable "bullnose" profile plastic edge or laminated wood edge of at least 1/2" thickness.
 - d. Corner work surfaces shall feature a curvilinear inside corner.
 - e. Features adjustable leveling glides shall accommodate uneven floors. Adjustment shall be at least 1-1/4".
 - f. Adjoining core units shall butt tightly to each other to provide a continuous and level work surface without gaps.
 - g. A continuous open space of at least 5/8" to provide a channel for dropping cords and cables between work surface and back panel. A flexible plastic guard prevents items from falling behind the work surface.
 - h. Steel accessory rail shall be permanently affixed to the rear of the work surface, concealed by a flexible plastic guard. Holes in accessory rail shall accommodate a variety of stanchion-mounted accessories, including the Details slat-wall.
 - i. Steel cable trays shall be permanently affixed to the rear of the work surface, under a 5/8" wide gap between the work surface and back panel.
 - j. Cable tray shall accommodates 28 cat 5 cables with up to 70 cat 5 cables with the extended cable tray option.

- i. Large cord or cable connectors routing behind the work surface shall be accommodated through removable, snap-in-place plastic covers in the rear corners.
- Supports shall be offered in a variety of types:
 - a. End support allows a flush termination at the exposed end of a unit (straight and extended corner units).
 - b. Inside support shall be used when unit is to be connected to an adjacent unit. A notch allows pass through of cords and cables from one unit to the other.
 - c. Lower column shall support the corner and provide a vertical channel for cord and cable routing from a utility trunk to the work surface. Cover shall conceal the interior of the column.
- Back panel shall leave an opening of at least 5-1/2" to accommodate a base-plate or a utility trunk.
- Corner work surface shall be available with extended straight sections to avoid the cost of adding a separate straight unit.
- Options:
 - a. Additional leveling glide adjustment of 2-1/2" shall be achievable through service parts.
 - b. An optional back panel with an opening of at least 20" high shall be available to provide access to wall outlets when unit is backed against a wall.
 - c. Factory-installed pass through shall be offered for end panels and back panels. Edges shall be hemmed for smooth, non-abrasive passing of cords and cables. Metal cover plates shall be shipped with each pass through to cover the opening when not in use.
 - d. Expanded cable routing shall be accommodated with an add-on cable tray.
 - e. Steel base-plates at least 20 ga. (.036") thick shall be available to close the space below the back panel when a utility trunk is not used.
 - f. Corner and extended corner core units may be specified with adjustable keyboard.

6. **Storage-Overhead Column-Mounted Cabinets**

- Height: 17-1/4"
 - Overall height (includes back screen) shall be 65" above the floor to provide standing height privacy
 - Straight widths: 30", 36", 48", 54", 60", 72"
- Overall depth: 15-3/4"
- Standards Include:
 - a. Clearance between the shelf and work surface shall be at least 19-1/4" to accommodate computer monitors
 - b. Cabinet shelf shall feature a recessed area for mounting a task light.
 - c. The area between cabinet and work surface shall be left open for interaction between adjacent workstations, with the option to close the opening with a standard 20"H core-mounted screen.

- d. Flat-front flip-up doors shall recess into the cabinet to provide a clean aesthetic. An equalizer mechanism prevents door from binding while recessing into the cabinet.
- e. Factory-installed, front-removable lock shall be standard on each door. Two-door units shall be keyed alike.
- f. Cabinet shall be constructed of steel components for durability, recyclability and security.
- g. Steel cabinet supports feature removable covers shall provide access to a concealed vertical cord and cable routing channel.
- h. Spanning of two core units with a single cabinet shall be available if total width matches.
- i. Door shall be able to be operated by a seated person.
- j. Cabinet shall feature a fully enclosed back to support freestanding applications and to prevent contents from damaging the surface of panels or walls.
- k. Two holes in the shelf, minimum 1-3/4" diameter, shall be provided to allow cords to route from inside the cabinet to the desk top.
- l. Integral finger pull on the bottom edge shall keep the front of door aesthetically clean.

7. **Privacy Elements – Core-Mounted Screens**

- Height : 11-3/4" or 19-1/4" above the work surface
- Widths:
 - Straight widths: 24", 30", 48", 60", 72"
- Standards Include:
 - a. Two heights shall be available to provide different seated privacy needs. A stepped visual can be provided when different height screens shall be mounted on adjacent core units.
 - b. User side surface shall be tackable. Outer (aisle) side is non-tackable.
 - c. Top surface shall feature a plastic trim to help prevent visitors from soiling the fabric.
 - d. Corner screens shall be mitered so that adjacent screens form a sharply defined edge.
 - e. The addition of screens to a core unit shall not affect the dimensioned footprint.
 - f. A filler shall be available for when two straight screens come together to form a 90 degree corner, such as when screens shall be applied between units that shall be joined by a transition unit.
 - g. Spanning of two core units with a single screen shall be available if total width matches.
 - h. Core-mounted screen shall meet the following minimum acoustic ratings per ASTM C423-02a and E795-00: NRC of .35, STC of 26.

8. **Construction Methods, Materials Utilized and Value Delivered**

- Work surfaces on all Core Units and Countertops

- a. High-pressure laminate work surfaces shall be 1-3/16 inch nominal finished thickness and feature balanced construction to prevent bowing or warping, with 0.028 inch thick high-pressure laminate on the top surface and a 0.030 inch thick backer on the bottom. The wood core shall be medium density (45 lb/cu ft) commercial grade particle board as defined in AWI 200-G quality standards. The laminate and backer shall be permanently attached and reinforced under pressure to the wood core using water-based polyvinyl acetate (PVA) adhesive.
 - b. Wood or plastic edge band and/or T-mold shall be applied to the entire perimeter of the work surface to prevent any off gassing from exposed particle board.
 - c. Plastic edge band shall be permanently and securely attached to the wood core with hot melt adhesive. Both ends of any T-mold edge shall be pinned or otherwise secured to prevent any loosening at the ends.
 - d. Laminate shall conform to NEMA LD3-2005 test procedures and standards, which shall be the laminate industry standards for high-pressure decorative laminates (HPDL). LD3 shall dictate appearance, gloss, light resistance, clean ability, high temperature resistance, scratch resistance, impact resistance, wear, and other qualities.
 - e. Edge band shall be a minimum of 3mm thick.
- Work surface Supports
 - a. Structural supports shall be welded assemblies of steel components.
 - b. End support assembly shall be 22 ga. (.030") steel on the outer skin, 20 ga. (.036") steel on the inner skin, 20 (.036") ga. steel on the stressed skin and 16 (.059") ga. on the rear channel welded to provide additional support.
 - c. Inside support assembly shall be 16 ga. (.059") steel on the inside support arm, 16 ga. (.059") steel on the support channel, 16 ga. (.059") steel on the inside vertical support and 16 ga. (.059") on the vertical support channel welded and reinforced to provide additional support.
- Back and Modesty Panels
 - a. Back and modesty panels shall be welded assemblies of steel components.
 - b. Back panel shall be 20 ga. (.036") steel, 18 ga. (.047") steel on the back bracket, 16 ga. (.059") steel on the bottom brace and 18 ga. (.047") on the top back brace welded to provide additional support.
- Overhead Cabinet and Shelves
 - a. Cabinet body and shelf shall be constructed of welded steel components.
 - b. Steel mounting posts shall feature steel covers
 - c. Cabinet shelf and end panels shall be 18 ga. (.047") steel. Top shall be 20 ga. (.036") steel. Door shall be 20 ga. (.036")
- Core-Mounted Privacy Screens

- a. Steel outer pan shall be at least 22 ga. (.030") steel with reinforcing steel horizontal braces welded inside to provide additional stiffness. Fabric shall be adhered to the pan with a water-based adhesive.
- b. Inner tackable core shall be upholstered foam at least 7/16" thick. Fabric shall be adhered to the pan with a water-based adhesive. Upholstered core shall be adhered to the pan with hot melt adhesive.
- c. Top trim shall be plastic and features a snap fit feature for easy serviceability.
- d. Mounting legs shall be at least 1/4" thick steel for impact resistance.
- e. Slatwall insert shall be aluminum with a steel inner panel attached with screws.
- f. Marker board insert shall consist of a .44" thick fiberglass panel with PET laminated steel applied to the front with water-based contact adhesive. The insert assembly shall be then adhered to the screen with hot melt glue.

9. **Surface Materials**

- Core Units & Jetty Tables
 - a. Work surfaces and Countertops – high-pressure laminate shall be available in at least 53 finishes (includes wood grain patterned laminates). Wood veneer shall be available in clear maple finishes. Edge band and bull nose user edges shall have default complimentary finishes. Shall be available in color: Steelcase –Milk or as approved by interior designer.
 - b. Back Panel, End Support, Corner Support, Inside Support, Support Column, and Modesty Panel – shall be available in color: Steelcase – Milk or as approved by interior designer. Note paint qualities below in miscellaneous section.
 - c. Cable Tray, Accessory Rail, Keyboard Mechanism – shall be painted black.
 - d. Port Covers – shall be molded in Grotto 6681 or Cobblestone.
 - e. Channel Guards – shall be molded in Grotto 6681.
- Overhead Cabinets and Shelves
 - f. Support Columns, Column Covers, Shelf and Cabinet – shall be available in color: Steelcase –Milk or as approved by interior designer. Note paint qualities below in miscellaneous section.
- Core-Mounted Screens
 - g. Fabric-Covered Surfaces – shall be available in color: Steelcase –Mud Pie or as approved by interior designer. Note paint qualities below in miscellaneous section.

10. Miscellaneous

- a. Service parts shall be available.
- b. Shall be shipped fully assembled (with the exception of countertops, round tables, and column-mounted items) Customer testimonials/endorsements shall be made available upon request.
- c. Painted surfaces shall have the following qualities:
Factory applied finish - electrostatic, baked-on epoxy-polyester hybrid powder coat paint for optimal corrosion, stain, abrasion and scratch resistance
- d. Specular gloss level of exterior painted surfaces as specified in ASTM D523-08 (at 60°) shall be controlled at 40% +/- 5% (this is in the semi-gloss range)
- e. The worksurface of the freestanding unit shall not be affected by ordinary household solvents, acids, alcohols, or salt solutions and is capable of being wiped clean with ordinary household cleaning solutions.