

CONSTRUCTION STANDARD SPECIFICATION

SECTION 12701

FREE-STANDING MODULAR FURNITURE

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CONSTRUCTION STANDARD SPECIFICATION

SECTION 12701

FREESTANDING MODULAR FURNITURE

PART 1 - GENERAL

1.01 SUMMARY

- A. Section includes installation and disassembly of freestanding modular furniture.
- B. Work includes, but is not limited to, the following:
 - 1. Labor, equipment, and material to install freestanding modular furniture.
 - 2. Labor and equipment to install, or disassemble freestanding modular furniture.
 - 3. Labor, equipment, and material to:
 - a. Protect and transport components from Sandia National Laboratories' (SNL) warehouse, Vendor's warehouse, or other location specified by the Sandia Delegated Representative (SDR) to final installation location.
 - b. Dismantle, package, protect, and transport components to SNL's warehouse.

1.02 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- B. National Fire Protection Association (NFPA)
 - 70 National Electrical Code
- C. Underwriters Laboratories Inc. (UL)
 - Listing 1286 Office Furnishings

- D. ADA and ABA Accessibility Guidelines for Buildings and Facilities, Part II: ABA Application and Scoping.

1.03 DEFINITIONS

Freestanding Modular Furniture: Assembly of furniture, lighting, cabling, and wiring.

1.04 SUBMITTALS

- A. Certification for Refurbished Products: Provide written documentation certifying that refurbished products comply with UL Listing 1286.
- B. Design Calculations for Wall Channels: Provide written documentation certifying that a licensed structural engineer has provided calculations and design for wall reinforcement that allows the use of wall channels.

1.05 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide furniture with the following surface-burning characteristics as determined by testing identical products per ASTM E84 by UL, or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Flame Spread: 25 or less.
 - 2. Smoke Developed: 450 or less.
- B. Electrical Fixtures, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- C. Refurbished Steelcase Avenir Products: Provide certification that products comply with UL Listing 1286.

PART 2 - PRODUCTS

2.01 MANUFACTURER

- A. New Installations:
 - Haworth: Provide Haworth Premise Furniture Line with “X-Series” storage, unless indicated that the products are furnished by SNL.
 - 1. Laminate Color: H-AE, Maple
 - 2. Main Metal Color: TR-LE, Metallic Silver
 - 3. End Panel, Base Cove, Misc. Non-metal Finish: TR-E, Smoke
- or

Steelcase: Provide Steelcase Answer Furniture Line with Avenir Storage Bins (Avenir to Answer conversion bracket) and “Universal” storage.

1. Laminate Color: 2412, Natural Cherry
2. Main Metal Color: 4750, Champagne.

B. Existing Installations: For modifications to existing Steelcase Avenir and Herman Miller systems furniture configurations, use:

1. Haworth: Provide Haworth Premise Furniture Line, unless indicated that the products are furnished by SNL.
2. Steelcase: Provide Steelcase Answer Furniture Line, unless indicated that the products are furnished by SNL.

2.02 ANCHORS AND ATTACHMENT DEVICES

1. Fasteners and Anchors: Approved by manufacturer for use in intended application to support fully-loaded overhead storage and tackable components.
2. Do not use wood plugs, lead wool, lead lag-screw shields, or plastic threaded shields.

2.03 TOUCH-UP MATERIAL

Touch-up material: Manufacturer’s recommended product.

2.04 SEATING

Reference SNL’s Just in Time (JIT) catalog for seating options from both furniture Vendors.

PART 3 - EXECUTION

3.01 EXAMINATION

Examine floors and conditions for compliance with requirements, installation tolerances, and other conditions affecting performance of freestanding modular furniture. Proceed with installation only after unsatisfactory conditions have been corrected.

3.02 PREPARATION

- A. Protect existing work.
- B. Cleaning: Before installing freestanding modular furniture, vacuum floor and remove dust, dirt, and debris.

3.03 INSTALLATION

A. General: Install freestanding modular furniture in accordance with manufacturer's installation instructions and requirements of this specification, ADA and ABA Accessibility Guidelines for Buildings and Facilities, Part II: ABA Application and Scoping requirements, and Contract Drawings.

1. Steelcase: Steelcase Freestanding Modular Furniture Answer Solutions Specification Guide
 2. Haworth: Haworth Premise Freestanding Modular Furniture, Specification Guide
- B. Coordinate with work of other trades that are affected by the freestanding modular furniture installation.
1. Install freestanding modular furniture after floor coverings and suspended acoustical ceilings have been installed.
 2. Electrical/communication terminations shall be performed by a qualified electrician assigned to the task by SNL.
- C. Install work surfaces and supports level, plumb, and straight with perpendicular intersections.
- D. Adjust work surface components and hardware, insuring that proper rigidity and balance are maintained.
- E. Wall channels are permitted and must be installed in accordance to manufacturer's guidelines. The channels must be installed with the bottom of the channel starting at floor level. Any set of channels wider than 36" must be accompanied by a horizontal brace that is secured into the studs of the wall.
- F. Keep furniture assembly areas and egress paths clear of boxes, parts and debris. Do not block building exits or exiting corridors. Remove trash daily to avoid trip hazards and fire potential.
- G. Protect all existing site landscaping, building wall finishes and flooring from damage during the furniture installation. The furniture installation Contractor shall repair or replace, at their cost, damage to SNL property during the furniture installation.

3.04 DISASSEMBLY

- A. Disassemble freestanding modular furniture using procedures, sequencing and workmanship to minimize damage to components.
- B. Deliver freestanding modular furniture to SNL's warehouse in approximately the same component assemblies as issued.
- C. Small components shall be boxed, taped to, or bagged with major assembly component, and each unit shall contain only one type of component set.

- D. Deliver assemblies on proper sized pallets, and stack to prevent damage and spillage during transportation.
 - 1. Place furniture on pallets with cardboard or other separators of sufficient thickness between items to prevent damage.

3.05 REPAIR

Repair damaged or defaced work, or replace with new work as acceptable to SDR at no charge to SNL.

- A. Freestanding modular furniture or component parts that are damaged by Contractor shall be repaired, or replaced at Contractor's expense.
- B. Repairs shall comply with requirements of Quality Assurance Article.

END OF SECTION