

# Technical Specifications

## ANSI/BIFMA

Volition meets or exceeds the required ANSI/BIFMA X5.5-1998 desk systems standard.

## Quality

All Volition desk components shall originate from ISO 9000, ISO 9001, or ISO 9002 registered facilities.

## UL Listed

Volition desks are listed to applicable UL standards and requirements by Underwriters Laboratories Inc. Two of the standards used to evaluate Volition desks are UL 1286 Office Furnishing and UL 723 Standard Test for Surface Burning Characteristics of Building Materials.

## Basic Worksurfaces

Worksurfaces shall define the shape of the workstation and provide support for overhead storage, electrical componentry, and privacy screens. Worksurfaces shall be designed to integrate function and ergonomics to provide solutions that meet ANSI/HFS-100-1998 and ADA user requirements.

## Rectangular Worksurfaces

Worksurface tops shall be 1 1/8" high density particleboard with .03 or .04 high pressure laminate surface and .02 to .04 phenolic backing sheet, available in a choice of over 30 colors. Top shall be available with a flat 3mm PVC edge in a choice of 5 edge colors or a 3/8" wood edge. Worksurfaces shall be available in 24", 30", 36", 42", 48", 54", 60" and 72" widths and 24" and 30" depths. They shall be available in a 29" height.

Basic Rectangular worksurfaces shall include 2 triangular worksurface grommets, located in the back corners of each worksurface. 66" and 72" worksurfaces shall have 3 triangular wireway grommets, two in the corners and one located near the back center of the desk. Grommets shall be color matched to the worksurface edge color. The legs shall have (4) 3.27" x 2.27" wire management ports located in the top and bottom outside edge of each back corner. Worksurface and leg grommets will be molded from polycarbonate.

Leg Assembly - Each leg assembly consists of welded and assembled components which come together to form the full leg assembly. The leg assembly is attached to the underside of the worksurfaces from above. A metal leg cover can be removed from the front of the leg to gain entry to the interior of the leg. Within the leg, there is a metal structural support that can be used to separate power and data running within the leg. A glide is attached to the bottom of the leg for up to 1 1/8" of adjustability. The desk leg - Formed of 18-gage steel, overall dimensions are 6.00 x 6.00 x 27.25.

Modesty Panel Beam - Formed of 18-gage steel, overall dimensions are 3.00 x 9.00 x length determined by size of worksurface. The modesty panel beam is attached to the underside of the worksurface and the leg assembly. The modesty panel beam allows basic cabling to be run along the width of the desk. Plastic worksurface spacers that provide a slight stand off distance between the worksurface and modesty panel beam shall snap into place to aid installation.

Data Modesty Panel Bracket - A steel bracket shall be available that will attach to the underside of the modesty panel beam near the worksurface. It will have a 1.38" x 2.70" opening to accept several different manufacturers' TIA/EIA standard data faceplates.

Lower Modesty Panel - Optional. Formed of 18-gage steel, overall dimensions are 1.00 x 18.00 x length determined by size of worksurface. The lower modesty panel is attached to the leg assembly and will complete the full enclosure of the back of the desk.

Finish for all metal parts shall be made available in over 24 standard enamel colors.

End Panel Assembly - Each end panel consists of welded and assembled components which come together to form the full end panel assembly. The end panel is formed of 18-gage steel and has a honeycomb core for strength and noise reduction. Overall dimensions are 1.25 x 27.00 x depth determined by worksurface size or configuration. The depth is available in three sizes based on the depth of the worksurface (24" or 30") and whether or not a transitional or full end panel configuration is desired. The end panel assembly is attached to the underside of the worksurface and the leg assembly. A glide is attached to the bottom of the end panel for up to 1 1/8" adjustability.

## Rectangular Reduction Worksurface

Rectangular reduction worksurfaces shall have the same basic construction as the rectangular worksurfaces. These worksurfaces shall have a depth of 24" on one end and 30" on the opposite end. The reduction shall be accomplished with two gently curving (12" radius) arcs that change direction halfway into the width of the worksurface. Widths of 24" to 72" in 6" increments will be available.

## Executive Worksurface

Executive worksurfaces shall have the same basic construction as the rectangular worksurfaces. These worksurfaces shall have a depth of 24" or 30" with a radius edge on the back of the worksurface. The radius edge shall extend a maximum of 6" beyond the normal depth. A right and left back corner grommet will be standard. Widths available will be 60", 66", and 72".

## Corner Worksurface

Corner worksurfaces shall have the same basic construction as the rectangular worksurfaces with an additional leg assembly, modesty panel beam, and optional lower modesty panel. In freestanding applications, standard end panels must be used. If attached to another worksurface, transitional end panels may be ordered to replace standard end panels for the sides of the attachment on both worksurfaces. Transitional legs shall be available that allow additional clearance. The front working edge will have a 16" or 22" radius depending on the size of the worksurface. Depths of 24" and 30" and widths of 48" to 72" will be standard (54" width is not available). One side is always 48" (except for a 42"/42" desk). Three grommets, one per corner, are standard. Whenever a width is 60" or 72", a grommet will be added approximately midway of that width.

## P-Shaped and Piano Shaped Worksurfaces

P-shaped and piano shaped worksurfaces shall have the same basic construction as the rectangular worksurfaces with an additional 4" support leg and standard modesty panel. The support leg shall be attached towards the rounded front end of the worksurface. The tubular support leg will have a diameter of 4", be constructed of 14-gage steel, and have a 1 1/8" adjustable steel glide. In freestanding applications, standard end panels must be used. If attached to another worksurface, transitional end panels may be ordered to replace standard end panels for the sides of the attachment on both worksurfaces. The front working edge will have a 16" or 22" radius depending on the size of the worksurface. Depths of 60" and 72" and widths of 48" will be standard. Two grommets, one per corner, are standard.

## D-Shaped Worksurface

D-shaped worksurfaces shall have the same basic construction as the rectangular worksurfaces with an additional 4" support leg and standard modesty panel. The support leg shall be attached towards the rounded front end of the worksurface. The tubular support leg will have a diameter of 4", be constructed of 14-gage steel, and have a 1 1/8" adjustable steel glide. The width of the top shall be 24", 30", or 36". The depth shall be available in a range from 48" to 72".

## Round Add-On Worksurface

Round add-on worksurfaces shall be available with the same edge treatments as the rectangular worksurfaces. They shall be available in a diameter of 36" and 42". The 36" diameter round add-on will have a flat edge of 24" and the 42" round add-on will have a flat edge of 30". The single tubular support leg will have a diameter of 4", be constructed of 14-gage steel, and have a 1 1/8" adjustable steel glide. A pair of steel splice plates will be included to attach the round add-on to a worksurface.

## 1/2 Round Add-On Worksurface

1/2 round add-on worksurfaces shall be available with the same edge treatments as the rectangular worksurfaces. They shall be available in a diameter of 48" and 60". The 48" diameter 1/2 round add-on will have one flat edge of 48" and the 60" round add-on will have one flat edge of 60". A single tubular support leg will have a diameter of 4", be constructed of 14-gage steel, and have a 1 1/8" adjustable steel glide. The 1/2 round add-on will be able to attach to a pair of 24" or 30" worksurface ends. A pair of steel splice plates will be included to attach the 1/2 round add-on to a pair of worksurfaces.

## 1/4 Round Add-On Worksurface

1/4 round add-on worksurfaces shall be available with the same edge treatments as the rectangular worksurfaces. They shall be available in a radius of 24" and 30". A single tubular support leg will have a diameter of 4", be constructed of 14-gage steel, and have a 1 1/8" adjustable steel glide. The 1/4 round add-on will be able to bridge a pair of identical depth (24" or 30") 90° worksurface ends. It will also be able to be attached to an appropriate matching (24" or 30") edge of a single worksurface edge. A pair of steel splice plates will be included to attach the 1/4 round add-on to a pair of worksurfaces.

## Relocatable Power Tap (RPT)

The RPT shall have duplex outlets and be mountable in the overhead stanchions or transaction countertop stanchion. Two RPTs may be mountable per stanchion. Cord lengths available for RPTs shall be available with a cord length of 36" or 96". RPTs will provide above worksurface height power via an installed 10-wire electrical system or through the use of building wall outlets.

## Backpack Wire Trough Kit

The backpack kit shall consist of 3 steel wire troughs, a pair of trough mounting brackets, a backpack cover, and any applicable end trim. The backpack cover shall be made of 18-gage steel and be removable without the use of any tools. The wire troughs shall be made of 20-gage steel and provide 1.25" by .92" of room for lay in cabling per trough. Various trim pieces shall be made available to conceal any gaps in corner, straight, or end of run conditions. A backpack panel may also be ordered without the wire troughs.

## 10-Wire Electrical Distribution System

The 10-wire system is available in two configurations (6-2-2 and 4-4-2). The UL label is green for 6-2-2 and blue for 4-4-2 applications. These numbers refer to the quantity of hot - neutral - ground wires configured in each system. Both the 6-2-2 and 4-4-2 systems may be brought into the system from the ceiling, the wall or floor, through the use of top feeds and base feeds. Volition 10-wire electrical will be able to integrate with OEI's PowerWorks panel system with the addition of the appropriate connectors.

The 10-wire electrical distribution system will consist of a 10-wire harness, table to table connectors, and a 10-wire infeed kit. The 2.16" wide double sided, rigid 10-wire harness shall mount to the underside of the modesty panel beam and shall be available in widths to span the worksurface. The 30" to 66" wide worksurface harness kit shall accommodate (2) 15 amp duplex receptacles and the 72" wide worksurface harness kit shall accommodate up to (4) 15 amp duplex receptacles.

Receptacles shall be available to access the up to 6 circuits within the harness and must be ordered separately.

Both 10-wire circuits are rated at 120 vAC @ 20 amps. All receptacles are rated at 15 amps. The specifics of each wiring configuration are detailed below.

**Note: The two ten wire systems (4-4-2 and 6-2-2) cannot be mixed together. The wiring systems must be separate.**

There are different receptacles for each system, and different connectors specific to each system. Keyed connectors will not allow the 2 systems to be mixed.

## 6-2-2 Configuration

The 6-2-2 configuration of the 10-wire system will have three "convenience" circuits (1, 2, & 3) which will each have their own hot wire, will share an oversized neutral wire, and will share the building ground wire. Circuits 4, 5, & 6 are "isolated ground" circuits that will each have their own hot wire, will share an oversized neutral wire, and will share an isolated ground wire.

The advantage of this system is that it will be able to have 6 circuits coming in via one top feed or base feed. This will cut down on the number of feed points on an installation. The number 4, 5, & 6 receptacles will be colored orange to designate that they are on the isolated ground, while the number 1, 2, & 3 receptacles come in the standard trim colors.

## 4-4-2 Configuration

The 4-4-2 configuration of the 10-wire system will have two "convenience" circuits (1 & 2) which will each have their own hot wire, their own neutral wire, and will share the building ground wire. Circuits 3 & 4 are "isolated ground" which will each have their own hot wire, their own neutral wire, and will share an isolated ground wire.

The advantage of this system is that all of the circuits will have their own neutral wires, and has two circuits (3 & 4) that use an isolated ground. The number 3 & 4 receptacles will be colored orange to designate that they are on the isolated ground, while the number 1 & 2 receptacles come in the standard trim colors.

## 10-Wire Power Infeed Kit

The 10-wire power infeed kit shall provide power from fixed floor, or wall sources to the 10-wire harness. It shall include 6' of plastic covered flexible conduit. To connect the "hardwire" end of a 10-wire topfeed or basefeed to your building, use a 3/4" Romex connector on the conduit.

## 10-Wire Power Table to Table Connector

10-wire table to table connector shall consist of a sleeved flexible harness, which provides power connections from adjoining desks. The jumper shall have a length of 27".

## Power Pole

The power pole body shall be made of extruded aluminum, 16-gage, overall dimensions are 1.73 x 3.43. It will have two cavities for physical power and data separation. Length of top feed harness is 12". The power pole cover will be made of extruded aluminum, 16-gage; overall dimensions are 1.73 x 3.43 x height determined by ceiling. A plastic trim piece will cover the area where the pole intersects the ceiling.

## Pedestal Storage

Pedestal storage for Volition shall be provided by Series XXI Pedestals. 3 styles shall be available to meet personal storage requirements. Freestanding, mobile, and hanging pedestals.

Pedestals shall be available in 3 depths, 17 5/8" that may be used with any depth worksurface, 21 5/8" for maximum storage under a 30" worksurface, and 27 5/8". Multiple drawer combinations shall be available.

Locks shall be included in each pedestal and shall be randomly keyed. Specific keying combinations shall be available.

**Freestanding Pedestals**

Freestanding pedestals shall have a finished top and 4 adjustable glides. They shall be placed under a worksurface or anywhere else in the office. A counterbalance weight shall be included with each unit.

**Mobile Pedestals**

Mobile pedestals shall have a finished top and 4 twin wheel hooded casters. Front casters shall be locking and back casters shall be non-locking. A counterbalance weight shall be included with each unit.

**Hanging Pedestals**

Hanging pedestals shall have keyhole slots for attachment under basic worksurfaces. No more than one hanging pedestal should be specified on any one worksurface.

**Center Drawer**

Center drawers shall be of a formed plastic construction with a front compartment tray integral to the molding. Locks shall be included and shall be randomly keyed. Specific keying combinations shall be available. They shall attach under Volition worksurfaces and shall be available in the standard trim colors.

**CPU Sling**

The CPU sling shall attach to the underside of worksurfaces and accommodate a range of CPUs up to 65" in circumference and a maximum of 75 lbs. It shall provide 5 1/2" of front to back travel and 359° swivel for ease of accessibility. The CPU sling shall be available in black only.

**CPU Holder**

The CPU holder shall accommodate a range of CPUs from 2" to 10 1/2" thick and 11" to 21" tall. An optional security kit will be available that prevents tampering or removal of the CPU. The CPU holder shall be available in black only.

**Privacy Screens**

Privacy screens shall be available to provide sit down or stand up privacy within the Volition workstation. Screens shall be 3/4" thick, 18 1/4" through 38" high, and available in widths to fit all worksurfaces. They shall be mountable to either the overhead supports (SBS), behind the worksurface (SBW), to the top of the worksurface (SOW), or with a combination of attaching to an overhead support and a worksurface top (SSD). A stackable 18 1/4" high section (STK) shall also be available.

Stackable privacy screens will be able to be mounted to the SBW or SOW privacy screens. The STK privacy screen mounting will not require any tools.

Privacy screens shall be designed for straight-line applications. They shall include mounting brackets for attachment to the worksurface. Screens shall be available for straight applications in 24", 30", 36", 42", 48", 54", 60", 66", and 72" widths. The 66" and 72" widths shall consist of a pair of screens (1) 30" plus (1) 36" screen for 66" applications and (2) 36" screens with splice extrusions for 72" applications.

Screens may be used to serve 2 worksurfaces placed back to back. Privacy screens shall be useable on worksurfaces with overhead storage units to close the opening between the worksurface and the bottom of the shelf. Corner screens shall include a corner light block channel. The light block channel will also serve to align and hold the back corner together. Screens shall be available in configurations to match the worksurface application, basic worksurface, or corner worksurface.

Privacy screens will consist of two different aluminum extrusion profiles, each assembled with die-cast corner connectors to create a rectangular frame. The frames will be either upholstered or painted, depending on option. Between the two assembled frames, different core materials can be inserted. The screen material

shall be made of 1/2" or 3/4" thick tackable core light or a 10mm thick non-tackable translucent plastic. The frame shall be made of extruded aluminum that is .060 in. thick. Overall dimensions of the frame shall be 1.40" x length and height dependent on desk size and screen height. The bracket extrusion shall be made of extruded aluminum. Overall dimensions are dependent on screen option and height and desk size.

**Overstorage Mounted Privacy Screen**

Same construction as above with the exception of mounting bracket. The mounting brackets shall be formed of 16-gage steel with overall dimensions of 54" x .92" x 12.38".

**Transaction Worksurface**

Transaction worksurfaces shall be available in rectangular and corner configurations. The construction of the worksurface will be similar to a standard worksurface except for shape and overall dimensions.

The transaction panel shall be formed of 18-gage steel and attach to the underside of the transaction worksurface. Depths for rectangular and corner shapes shall be 16". Overall rectangular widths available shall be from 24" to 72" in 6" increments. Overall corner transaction sizes available shall be 42" x 42", 48" x 60", 48" x 66", 48" x 72", 48" x 48", 60" x 48", 66" x 48", and 72" x 48".

Transaction Worksurface Support - Formed of 16-gage steel. Overall dimensions are 6.00" x 6.00" x height determined by height of transaction worksurface. Support Cover - R/C (QMFZ2), rated 94HB minimum or formed of 20-gage steel. Overall dimensions are 6.62" x 11.38".

**Overhead Support Stanchion**

The overhead support stanchions shall be formed of 16-gage steel, overall dimensions will be 6.00" x 6.00" x 19.50". A reinforcement plate (16-gage steel) inside the support shall have 4 cutouts that can accommodate either commercially available data plates or Removable Power Taps (RPT).

Overhead support stanchion covers shall be standard. The covers shall be made of extruded plastic and available in 5 standard trim colors. They will be hinged to allow access to the inside of the overhead support stanchions. A flexible rubber trim piece shall allow power or data cables to be run from the worksurface into the overhead support stanchions.

**Overhead Storage**

Volition shall offer 2 styles of overhead storage units for use with any worksurface. The two styles are the Universal overhead and the Venus overhead. Overheads for basic rectangular worksurfaces shall attach through the grommets in the top of the worksurface. They shall have vertical wire channels that conceal the attachment and wires from the top of the shelf to the worksurface.

Shelf dividers made of power coated steel shall be offered in 5 standard trim colors. The installation or removal of them shall be accomplished without the use of tools or fasteners.

All overheads (Universal or Venus) shall be able to be used on System XXI, Panel Mounted or Off Module Powerworks, or Volition, depending on brackets used. All 72" overheads will consist of a pair of 36" overheads. All 66" overheads will consist of a 30" and 36" overhead combination.

**Universal Overhead**

Overhead cabinets shall be 34" high and shall have 18 1/2" clearance between the worksurface and the bottom of shelf. The universal overhead shall be offered in widths of 30", 36", 42", 48", 54", 60", 66", and 72". The flipper door opening shall be 13" high. They shall be available with doors of painted steel, fabric, laminate, or veneer. Locks shall be randomly assigned or keyed per customer requests.

**Universal Overhead Regular Shelf**

Product Offering - The product shall be offered in widths of 30", 36", 42", 48", 54", 60", 66", and 72". The overall dimensions of the end panels shall be 16 1/2" x 15". The shelf depth shall be 15".

Construction - The end panels shall be constructed of 14-gage steel, with a powder coat finish. The end panels shall have self-locking mounting tabs formed into the back edge. The shelf shall be an 18-gage steel weldment with a powder coat finish. The front edge of the shelf shall be a PVC extrusion that also provides space for a concealed flush mount task light.

**Universal Overhead Low Shelf**

Product Offering - The product shall be offered in widths of 30", 36", 42", 48", 54", 60", 66", and 72". The overall dimensions of the end panels shall be 9 1/4" x 15". The shelf depth shall be 15".

Construction - Same as a Universal overhead regular shelf unit.

**Venus Overhead**

The cabinet sides shall be constructed of 14-gage sheet steel, while the top, back, and shelf will be constructed out of 18-gage sheet steel. Venus overheads will be offered in widths of 30", 36", 42", 48", 54", 60", 66", and 72". The top, sides, back, and shelf will be resistance welded so there are no visible weld marks on the class A surfaces (outside visible surfaces). The cabinet shall be painted in the standard desk colors. The upper door shall be comprised of extruded rigid PVC. The extruded rigid PVC will be available in the 5 standard trim colors along with translucent. The lower door shall be comprised of extruded aluminum, which shall be available in the standard colors. A 10-gage hot rolled steel link arm connects the upper door and lower door.

Spring tension shall be used to assist in the opening and closing of the door. Applying pressure to the lower door opens both doors. Less than 5 pounds of force shall be needed to open both doors. The overhead door shall be able to be opened with a closed fist as well. The force and ease of opening shall make this overhead ADA compliant.

The shelf and back shall be slotted every two inches to allow for the use of shelf dividers. The underside of the shelf is also slotted with 1.5" by 1.5" slots to allow for electrical cords to run through the back.

**Task Lights**

Task lights shall be offered in one standard level of efficiency and cost. The standard light shall have a magnetic high power ballast with rapid start, cool white T-8 fluorescent lamp. Task lights shall attach to the underside of the shelf on overhead cabinets. Power cord length will be 9' long. Lights shall be UL listed and available in the 4 trim colors. They shall be available for all widths of Universal or Venus overheads.

**Paper Management System**

The paper management system shall address the storage and movement of files, binders, and documents. Components shall be available with integrated hooks for attachment to the work bar. The system shall be available in the 5 trim colors.

The paper management system shall include the following components: Tool Rail, Paper Tray, Diagonal Storage Unit, Vertical Storage Unit, Hanging File Folder Holder, Telephone Caddy, CD Holder, Accessory Tray, and a Pencil Cup.

The tool rail shall be fabricated from a powder coated aluminum extrusion with injection molded plastic end caps. The tool rail shall be attached to the workstation in one of two options. Option one is to attach the tool rail to the overhead storage supports through the use of self-locking steel brackets. Option two is to attach the tool rail to desk mounted brackets. Desk mounted brackets shall be 15.75" high, non handed, and constructed of 16-gage steel. The tool rail shall be 4 1/2" high and 7/8" deep, with

the length corresponding to the worksurface width minus the width of the overhead supports. Multiple combinations of paper management units shall hang on the bar in any of 4 vertical locations. All hang-on components shall be of injection molded ABS plastic.

The paper tray shall be 2" x 9 1/2" x 14". It shall be used freestanding or suspended from the tool rail.

The diagonal storage unit shall be 2 1/2" x 7" x 12 1/2". ABS dividers shall be able to be used in either left or right positions. It shall be used freestanding or suspended from the tool rail.

The vertical storage unit shall measure 5" x 10 1/2". It shall be used freestanding or suspended from the tool rail.

Hanging folder holders shall measure 2" x 1" x 8 1/2". They will be shipped one pair per set.

The telephone caddy shall measure 2" x 8 1/2" x 9 1/2". It will have a retractable tab to adjust to various size phones.

The CD holder shall measure 2" x 5 1/2" x 7". It shall store 10 CDs vertically.

The accessory tray shall measure 2" x 9 1/2" x 10". It will have compartments for the storage of common items such as: stamps, small note pads, tape, pencils, and paper clips.

The pencil cup shall measure 4" x 4" x 3 1/2".