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## **Specification No. E4 - Desk Specifications**

### **Desktops**

25 mm low pressure laminate with 3mm PVC edging on all exposed edges and .5 mm edging on concealed edges

Woodgrain laminate to run parallel direction with the length of the desk

### **Gables**

25mm low pressure laminate with 3mm PVC edging on all exposed edges and .5 mm edging on concealed edges

### **Modesty Panels**

16 mm low pressure laminate with .5mm PVC edging on exposed edges

### **Pedestal Units**

Drawer fronts – 16mm low pressure laminate with 3mm PVC edging on all sides

Gables and backs – 16mm low pressure laminate with .5mm PVC edging on exposed edges

Kicks – 16mm low pressure laminate with .5mm PVC edging on all sides

Drawers – 16mm low pressure laminate with .5mm PVC edging on exposed edges

### **Hardware**

#### **Desks**

Superior metal angle bracket connectors with lo-root wood screws

62mm adjustable leveling glides

75mm diameter grommet – location to be confirmed with Contract Administrator

#### **Pedestal Units**

Pencil tray insert

Full extension drawer slides - under mount soft close

Hanging file extrusion for legal or letter filing

Gang locks keyed alike for each unit

### **Finishes**

Top: Hardrock Maple

Bodies: Slate

Fabric: 5577 Sunshine

## **Specification No. E5 - Hutch Specifications**

### **Tops**

25mm low pressure laminate with 3mm PVC edging all exposed edges and .5 mm edging on concealed edges

Woodgrain laminate to run parallel direction with the length of the hutch

### **Gables**

26mm low pressure laminate with 3mm PVC edging all exposed edges and .5 mm edging on concealed edges

### **Modesty Panels**

16mm low pressure laminate with .5mm PVC edging on exposed edges

### **Shelves & Dividers**

25mm low pressure laminate with .5mm PVC edging on exposed edges

Woodgrains run the width of the hutch

### **Valance**

25mm low pressure laminate with 3mm PVC edging on exposed edge

### **Doors**

16mm low pressure laminate with 3mm PVC edging all edges

### **Hardware**

Wooden biscuit connectors glued and clamped

Soft close concealed European hinges

Locks keyed alike for each unit

1200mm Task light with high efficient florescent bulb

### **Finishes**

Top: Hardrock Maple

Bodies: Slate

Fabric: 5577 Sunshine

## **Specification No. E6 – Workstation Specifications**

### **Based on Teknion Leverage Product**

#### **Technical Specifications**

#### **Panels**

Panels shall have field removable, acoustical /tackable, fabric, power & communications.

Panel frame must be non-progressive, fully constructed, fully assembled and unitized.

Elements capable of being reupholstered in the field.

Elements shall be removable on both sides of panel for wire access and cable management without special tools.

Elements shall be non-sequential and capable of being repositioned in the field in like panel widths.

All acoustic Elements to be tackable.

Fabric Elements constructed of galvanized steel frame with straight, horizontal edges.

Each Element shall have a galvanized steel (23 gauge) frame with its own solid septum, be fabric wrapped, glued with a non-toxic water based adhesive and reinforced with metal access clips.

Power & Communication Elements shall have removable metal access snaps at the top and bottom to enable the element to be flipped.

Acoustical Elements shall have a minimum NRC and STC ratings of .65 and 20, respectively.

Fabric Elements shall have a minimum NRC and STC ratings of .65 and 10 respectively.

Typical panel height 66" with a 6" metal base with Element configuration as shown on drawings.

Electrical outlets must be secured to the panel frame via mid rail and face mounted.

Panel frame shall be constructed of welded steel forming a rigid, structural frame.

Minimum 18 gauge, cold-rolled steel welded to form a rigid structure, incorporating all load-bearing pilasters, together with leveling and connecting fittings for attachment of skin surface. One-piece construction, full height panel with an epoxy powder finish.

Frame shall have 1" incremental vertical slots designed to accept cantilevers and overhead components for vertical hanging of 3" increments. Panel supported components shall have a positive interlocking device to prevent components from dislodging from the unit.

Panels shall be equipped with adjustable leveler glides formed of cold-rolled steel with a welded cup. Glide cup shall be coated with durable and rust-resistant epoxy. Glide receiver shall be constructed of cold-rolled steel welded to the panel vertical. Panels shall be installed on top of finished floor without the need for special fasteners or anchors.

Panels shall permit add-on of stacking module with lay in trough to increase panel height on site without dismantling or replacing panel.

Two 15" add-on modules (glazed or fabric) can be added to base panels of any height, building to an overall maximum height of 96".

The first stack on unit to be structural component.

Panels shall be approximately 3” thick and must permit distribution or communication cables without damage to the cable. Panels must provide capacity and protection for loops and connectors.

Panels shall have base height and/or desk height, face mounted with electrical access interchangeable in the field.

Power shall be set at work surface level with access on either side of the panel .

Base trim shall be integral part of the steel base raceway and not require any additional trim material. Powder coated finish.

Standard panel can be upgraded to a segmented panel in the field.

Panel connections shall be sealed to conceal any electrical wiring.

Provide panel-to-panel connections with “posi-locks” and spring clips without intermediate components, concealing connector within finished panel.

Posi-lock is comprised of posi-locking cam and panel-posi lock latch.

There shall be no panel creep from panel to panel connections.

All Panels shall have a standard lay in trough that accommodates a 75mm x 30mm lay-in trough at the top of panel to house cabling.

Corner braces shall be available for all panel connections and one panel end trim shall be used for connectors and panels.

Panels able to connect off module utilizing standard hardware.

Panel top trim shall be the same horizontal width of the panel.

Panel top trim shall be installed on same width panel.

Panel end trims shall extend the full height of the panel.

Continuous panel top trim spans horizontal rails of two panels.

Panel trim finish to match the frame.

Panels approximate base height: 66”.

Panels shall be available in the following widths: 24”, 30”, 36”, 42”, 48”, 54” and 60”.

Panels must be capable of being flush against the wall.

<b>Panel Technical Table</b>	
<b>Heights</b>	Standard height: 66 ”
<b>Width</b>	Standard widths: 24”- 60” - as required
<b>Thickness</b>	Panel thickness, including elements is 3”
<b>STC</b>	25
<b>NRC</b>	.65
<b>Construction</b>	
▪ <b>Base</b>	Panel frame constructed of welded steel with an integrated baseboard.
▪ <b>Connector</b>	Metal to metal interlocking mechanism (posi-lock)
▪ <b>Panel</b>	Panel frame constructed of welded 20 gauge steel forming a rigid, structural frame, covered with outer cover pads and accessory elements.
▪ <b>Leveling Guides</b>	Panels completed with base levelers with an adjustment range of 3” to allow for panel height adjustment
▪ <b>Finishes</b>	Epoxy–powder coating

▪ <b>Top Cap</b>	Aluminum top cap
▪ <b>Upholstery</b>	Polyester and various blends
▪ <b>Change in Field</b>	Yes must be changeable in the field.
▪ <b>Panel Fillers</b>	Fiberglass center 6 lbs/cubic foot

## Electrical Power

Provide an 8 wire solution configuration.

Eight-wire solution shall be a 120/240-volt single-phase system comprised of four (4) circuits rated at 20 amps each. System contains 2 neutrals and 2 grounds.

Eight-wire solutions shall be a 120/240-volt single-phase system comprised of three (3) circuits rated at 20 amps each. System contains 2 neutrals and 2 grounds.

Power must run from panel to panel on interior.

Electrical shall be modular and non-dedicated to panels allowing for reconfiguration.

Receptacle outlets shall be rated minimum 15 amp each. Identification numbers on all circuits shall be printed on the face of each receptacle.

Receptacle outlets shall be accessed at work surface within the panel.

Receptacle outlets shall be duplex outlets – 3 per each workstation.

Connection will be from the main building supply to the panel for future.

Power shall be activated through lower base element of panel. Power shall enter at end of the panel width and at a floor level by means of a base junction box. Base feed shall come with flexible, liquid tight conduits.

Multiple stations may be powered from a single electrical feed. The number shall depend on the amount of power loaded into each workstation, not the capacity of the panel.

Task light shall mount under shelf in a fixed location.

One 24" task light shall use an energy efficient cool white fluorescent tube that is mounted in a case- sheet steel housing. The lens shall snap into extruded polycarbonate.

Prismatic exterior controls light diffusion while remaining firmly in place. Instant starts must ensure immediate illumination. Switch shall be located at one side only and task light must not be handed.

Units shall come with a wire management encasement that secures the electrical cord and attaches into the vertical panel slot. Bulbs to be included.

Systems to meet International electrical communication requirements, and CSA/UL electrical approvals.

Base feed, receptacle box and power distribution box enclosures are CSA/UL approved. These enclosures must permit the mounting of base feed and receptacles in the same locations such that no modifications of the panel frame or Power/communications elements are required.

<b>Electrical Power Technical Table</b>	
<b>Wire Configurations</b>	8 wire separate neutral with 2 general circuits
<b>Connections</b>	All Wire
<b>Tasklights</b>	

▪ <b>Lamping</b>	Vesper Task Light
▪ <b>Power Cord</b>	108" Long
▪ <b>Diffuser</b>	Equipped with asymmetrical reflector to eliminate veiling reflection
▪ <b>Diameter</b>	12 inches
▪ <b>Construction</b>	Semi-specular curved deflector and beam diffuser, (1) 13 watt Phillips PL-S compact fluorescent lamp – Lumen rating 900 lumens, with magnetic ballast
▪ <b>Wire Gauge</b>	#12 AWG
▪ <b>Amperage &amp; Volts</b>	20 amp, 60 HZ, 120 volts, CSA/UL approved

## Communication Cable Management

Cables shall be easily routed to the work surface through punch-outs within each of the horizontal members of the panel and any add-on modules. Cables shall be capable of being brought to work surface height from future power pole.

Cables shall be capable of being routed and managed through the panel frame at various heights.

Multiple horizontal cable paths shall be available within the upper panel frame.

Cables and network connectors shall be concealed within the panel.

Cable termination shall be conveniently located at base and work surface shall be accessible by users on either side of the panel.

Cable Management shall be enclosed around all corners.

## Work Surfaces & Supports

Work surfaces shall be constructed of 45lb Core Density Particleboard or 38-42 lb OSB board with surface top and backing of .032 inch high pressure laminate for total thickness of 1 1/16" inch. The seamless work surface core shall be MDF. Work surfaces shall be designed to support a minimum of 300 lbs. All corners of high pressure laminate shall be a "D" style radius.

Laminate work surface non-user edges shall be finished with a 3 mm bonded impact resistant T- molding.

HPL work surfaces shall provide access for cable management by an integrated cable scallop standard in every other work surface to provide rear access for cable management.

All surfaces to have threaded metal inserts to connect with supports for long term durability.

Work surfaces shall be adjustable to accommodate various task heights including barrier free access, typing height, stand-up and service counter height.

Work surfaces to be panel-hung, or semi-supported using work surface supports, leg supports plus additional panel hardware as required. Work surfaces can be hung from the vertical slots on the panel frame or off module utilizing C support leg. Panel support components shall have positive integral lock device to prevent components from dislodging from the panel.

Hardware and module supports to be universal and useable in any position

Cantilevers shall be constructed of 12 gauge steel. Corner brackets shall be constructed of 14 gauge steel. Flush mounting plates constructed of 11-gauge steel.

Off module support to be universal and mounted on the horizontal rail of panel.

Supports shall be installed into metal inserts below the work surface.  
 Work surfaces shall be available in 24" and 30" depths and vary in sized based on drawings.  
 Work surfaces shall be available in the lengths as noted on drawings.

<b>Work Surfaces &amp; Supports Technical Table</b>	
<b>Work surfaces</b>	
▪ <b>Thickness</b>	1"
▪ <b>Weight Load</b>	300 lbs
▪ <b>Weight Load at Corner</b>	300 lbs
<b>Construction</b>	
▪ <b>HPL Core</b>	Laminate work surfaces are constructed of 45 lb Core density particle board or 38-42lb oriented strand board (OSB). Wood work surfaces are constructed of 45lbs core density particleboard.
▪ <b>HPL Top</b>	.032 inch high pressure laminate, flintwood (.039 inch)
▪ <b>LPL Core</b>	Same as HPL Core
▪ <b>LPL Top</b>	.016 inch thermally fused malamina
▪ <b>Underside</b>	.032 inch high pressure laminate, wood without fully filled finish (.039 inch)
▪ <b>Non User Edges</b>	Laminate Edges are finished in vinyl

## Storage

Panel mounted overhead storage cabinet to be lockable. Attach to vertical slots and height adjustable.

The metal cabinet to be constructed of cold-rolled steel and the door shall retract outside of the cabinet with bottom steel shelf.

Top, Base: and Front: 20 Ga.; Side: 22 Ga.; Back and Shelves: 18 Ga.

Provide a plated metal finish lock with each cabinet.

All cabinets shall have a reinforced bottom section for weight distribution.

All cabinets shall be 15" high and 14" deep and 48" wide.

The interior of the cabinet to be equipped with a rail that accepts personal organizers and adjustable book organizers.

Shelves panel mounted via mounting brackets on 1" increments.

Pedestals shall be freestanding style.

Freestanding Pedestals shall fit under work surfaces and complete with locks. Pedestals to fit flush with the front of the work surface.

Pedestals shall be constructed of 22 gauge cold-rolled steel

All drawers have progressive steel ball bearing suspensions with full extension.

Pedestals shall have a fully finished back and bottom to provide an enclosed unit.

All pedestals shall have as standard, a field changeable lock and leveling glides.

All metal finishes shall be powder coated finish

File drawers shall be five-sided, full height and accept hanging file folders both front to



back and side-to- side. Box drawers shall include one metal divider and one pencil tray.

Configuration: Box/Box /File, or File/File.

Pedestals shall be available 22” depth.

Pedestals shall have a weight load of 200lbs.

<b>Storage Technical Table</b>	
<b>Overhead Storage</b>	
▪ <b>Construction</b>	Cold-rolled steel
▪ <b>Finish</b>	Foundation and Mica Finish
▪ <b>Height Adjustment</b>	Can be attached on-module at any height in 1” increments
▪ <b>Overhead to Panel attachment</b>	On-modular or off-module via mounting brackets at top of panel or at 15” increments
▪ <b>Load Limit</b>	141 lbs
▪ <b>Door</b>	Retracts outside over the cabinet.
▪ <b>Locking</b>	With Lock Keyed alike
<b>Open Shelving</b>	
▪ <b>Construction</b>	Cold-rolled steel
▪ <b>Finish</b>	Foundation or Mica Finish
▪ <b>Shelf to Panel attachment</b>	On-module via mounting brackets
▪ <b>Height Adjustment</b>	Can be attached at any height in 1” increments
▪ <b>Lip on Back Edge</b>	Yes
▪ <b>Load Limit</b>	141 lbs
<b>Pedestals</b>	
▪ <b>Construction</b>	Cold rolled steel
▪ <b>Load Limit</b>	200 lbs
▪ <b>Finish</b>	Foundation or Mica Finish
▪ <b>Locking</b>	Locks standard on all pedestals/Keyed alike
▪ <b>Change Configuration in Field</b>	Yes
▪ <b>Options</b>	No casters

## Finishes

Finish shall consist of a variety of finish materials and fabrics.

All fabrics to enhance system products. All fabrics shall meet or exceed industry technical standards.

Foundation Laminates shall be high-pressure laminates.

Source Laminates shall be low pressure laminates.

Edge trims shall be designed to coordinate with laminate colors.

Components within the system shall be finished on all sides.

Finish colors are powder epoxy.

Panel fabrics as specified.

<b>Finish Technical Table</b>	
<b>Panel Fabrics</b>	Grade A, China C510 Changsha
<b>Surface Finishes</b>	Wood Veneer Laminates – YM Maple
<b>Edge Trim Finishes</b>	Flat and Flintwood, Seamless, ABS