

PowerWorks

Technical Specifications

PANELS

Fabric Panels

Panels available with Noise Reduction Coefficients of .65 and .80 in heights of 30", 42", 54", 66", and 84". The panel widths offered shall be 12", 18", 24", 30", 36", 42", 48", 54", and 60". All panels of 24-60" wide can readily accept electrical components. The panel shall be 3½" thick.

The modular office systems acoustical properties will have been tested at independent laboratories using random production samples. The acoustical properties shall be determined by using the following testing procedure: Noise Reduction Coefficient (Test Method ASTM C-423). The standard acoustical panel tiles shall have an NRC rating of at least .65. The highly acoustic panel tiles shall have a rating of .80.

Vertical Posts

Full posts (used in-line & end-of-run) shall be available in heights of 30", 42", 54", 66" and 84" and include a glide that allows 4" leveling adjustment. Shall be constructed of 16 gauge cold rolled steel CRS with a black E-coat finish. Shall contain slots in 1" increments to allow component hanging and formed out pockets accept rivets of horizontal rails.

Stackable full post (used in-line & end-of-run) shall be available in heights of 12", 18" and 24" and include an extruded aluminum stacking splice to stack on full post. Shall be constructed of 16 gauge CRS with a black E-coat finish. Shall contain slots in 1" increments to allow component hanging and formed out pockets accept rivets of horizontal rails.

Half posts (used at intersections) shall be available in heights of 30", 42", 54", 66" and 84" and include a glide that allows 4" leveling adjustment. Shall be constructed of 16 gauge CRS with a black E-coat finish. Shall contain slots in 1" increments to allow component hanging and formed out pockets accept rivets of horizontal rails.

Stackable half posts (used at intersections) shall be available in heights of 12", 18", and 24" and include an extruded aluminum stacking splice to stack on half post. Shall be constructed of 16 gauge CRS with a black E-coat finish. Shall contains slots in 1" increments to allow component hanging and formed out pockets accept rivets of horizontal rails.

Integral glide shall provide 4" height adjustment. Shall be mounted to post with an injection-molded housing.

Integral light block shall be constructed of .030 black chipboard and include black, injection-molded wire protector and top cut-out.

Horizontal Rails

Horizontal rails shall be constructed of 16 gauge CRS with black E-coat finish, and eight rivets per horizontal member to attach to vertical members. Shall be offered in lengths of 12", 18", 24", 30", 36", 42", 48", 54", and 60" with mounting holes to accept electrical wireway in 24" and wider rails. Shall contain an integral off-module component hanging track.

Fabric Acoustical Tiles

Tile upholstery shall be stretched over the frame and adhered to perimeter of tile. Tiles shall hang on frame by an injection-molded hook. Connection shall interlock horizontal frame member to vertical member. Tiles are field replaceable.

.65 Noise Reduction Coefficient upholstered tiles shall be constructed of 20 gauge, prefinished steel. Frame shall be joined together by injection-molded corner blocks, and spot welded in place. Core shall consist of 7/16" thick perforated mineral fiberboard and 3/8" thick fiberglass overlay.

.80 Noise Reduction Coefficient upholstered tiles shall be constructed of 20 gauge, prefinished steel. Frame shall be joined together by injection-molded corner blocks, and spot welded in place. Core shall consist of 7/16" rigid fiberglass board and 3/8" thick fiberglass overlay.

Raceway Tiles

Raceway tiles shall be fabric wrapped. Fabric shall be adhered to face of tile. Raceway tiles shall be constructed of 20 gauge steel. Raceway tiles 24" and wider shall contain knockouts to accept receptacle and data jacks. Shall include steel trough for data cabling. Injection-molded ends shall mount tile to panel and provide flexible seal to conceal cables between tiles. Shall be available in 12" height only and widths of 12", 18", 24", 30", 36", 42", 48", 54", and 60".



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Glass Tiles

Glass tiles shall be constructed of an extruded aluminum frame. Frame shall be joined together by steel corner bracket plates and screwed into place. Glass shall be supported by PVC extrusion which slides into the aluminum frame. Shall be available in heights of 12", 18", 24", 30", 54", 66", and 84" and widths of 12", 18", 24", 30", 36", 42", and 48". Glass shall be 1/4" thick tempered or tinted.

Open Tiles

Open tiles shall be constructed of an extruded aluminum frame. Frame shall be joined together with steel corner brackets plates. Shall be available in heights of 12", 18", 24", 30", 42", 54", 66", and 84" and widths of 12", 18", 24", 30", 36", 42" and 48".

Base Trim/Raceway

All base trim/raceways 24" and wider shall readily accept electrical rigid wireways and data cables. The base raceway shall consist of two doors (one on each side of the panel). Each door shall be hinged to raceway bottom with integral living hinge and held in place with injection-molded base lock. Base shall snap onto vertical post glide housing. Shall ship standard with filler plates, which are easily removed to accommodate electrical receptacles and/or data jacks. Doors and bottom shall be .080 thick PVC.

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PANEL TRIM AND ACCESSORIES

Panel-to-Panel Connectors - The panel-to-panel connector must be universal for simplicity in specification and inventory. In-line connections shall include a full vertical post shared between two panels. 90° Intersections (2-way, 3-way, & 4-way intersections) shall include a half post which bolts into an extruded aluminum connector block. Open portions of universal connectors can accept universal corner trim.

Top Cap

All panels shall have a top trim cap made from rigid PVC with trim color permeating throughout the entire part with textured surface to hide fingerprints. Installation of top cap shall be a press fit without the use of tools. The top cap shall extend the full width of the panel.

Universal Corner Trim

Universal corner trim shall be constructed of .080 thick extruded PVC with integral flexible seal. Shall snap into open portions of corner connector block. Trim shall be extruded PVC with the trim color permeated throughout the part or fabric covered.

Variable Height Universal Trim

Variable height universal trim shall be constructed of .080 thick extruded PVC with notch to provide clearance for horizontal rail on lower height panel. Shall snap into open portions of corner connector block. Trim shall be extruded PVC with the trim color permeated throughout the part or fabric covered.

Adjustable Wall Mount

The adjustable wall mounts shall consist of a formed steel channel enclosed in a steel "U" channel to allow panels to be attached to existing building walls. This unit shall have a total adjustable depth of 1 1/4". Method of attachment to the existing building depends on the existing wall construction.

Panel End Caps

All exposed ends of a panel run shall be covered with an end-of-run cap. End-of-run caps shall be made from extruded rigid PVC with the trim color permeated throughout the part and shall be satin-textured to hide fingerprints. End caps shall be installed using a press fit method and require no assembly or disassembly tools. Panel end cap lengths shall correspond to panel heights. An end-of-run top cap shall be included with each panel end cap.

In-Line Variable Height Panel End Caps

All exposed ends of vertical posts shall be covered with a vertical trim cap when in-line panels are of different heights. Panel end caps shall be made from extruded PVC with the trim color permeated throughout the entire part and satin textured to hide fingerprints. End caps shall be installed using a press fit method and require no assembly or disassembly tools. Panel end cap lengths shall correspond to the different panel heights. An end-of-run top cap and bottom cap shall be included with each end cap.

2-Way Caps

Injection molded 2-way caps shall be available for spanning the gap when panels are assembled requiring a 2-way cap. The trim color shall permeate throughout the entire part.

3-Way Caps

Injection molded 3-way caps shall be available to cover the gap that exists when 3 panels are connected at right angles. The trim color shall permeate throughout the entire part.

4-Way Caps

Injection molded 4-way caps shall be available to cover the gap that exists when four panels are connected to each other at 90°. The trim color shall permeate throughout the entire part.

Off-Module Panel Mount

An off-module panel mount shall allow a panel to be connected at 90° along an adjoining panel at any point. Can be made at any height where a break in tiles exists. Does not allow for the transfer of power.

Door

Panel doors shall be available in 42" width and 84" height to provide visual and acoustical privacy. Panel door shall mount to an 84" high panel. The construction of the door shall be corrugated cardboard honeycomb wrapped by hardwood stiles, MDF rails, faced with hard-board and covered with high pressure laminate. The frames shall be powder-coated aluminum to match panel frames. The door shall be available non-locking or locking.



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ELECTRICAL

The factory installed US standard electrical system supplied for the modular office system shall be an 8/10 electrical system. This design consists of either 6 hot wires, 2 neutral wires and 2 ground wires – (6-2-2), which provide 6 separate 20 amp circuits or 4 hot wires, 4 neutral wires, and 2 ground wires – (4-4-2) which provide 4 separate 20 amp circuits.

Power Options

Power shall be supplied through an 8/10 electrical system. For power at heights other than base height, the panel must be specified with a raceway tile at the appropriate height. Raceway tiles at least 30" in width shall allow for the mounting of up to two duplex receptacles per tile (24" width shall allow one per tile). Rigid wireway can be mounted to any horizontal rail and snaps in with injection-molded clips. Power shall be available at the following heights:

- a. Base-Height Power - found in the 6" base raceway of the panel. Accepts US Standard receptacles.
- b. ADA-Height Power - The fabric covered raceway tiles shall allow for installation of ADA Height receptacles. In accordance with ADA requirements, receptacles are located at 20" from the base of the panel.
- c. Worksurface-Height Power - The fabric covered raceway tiles shall allow for installation of worksurface height receptacles. Two duplex receptacles can be mounted in a tile. Receptacles are approximately 32" high.
- d. Stand-up-Height Power - The fabric covered raceway tiles shall allow for factory installation of stand-up height receptacles. Two duplex receptacles can be mounted in a tile. Receptacles are approximately 44" high.

Panel Rigid Wireway

A rigid one-piece wireway shall be attached to the horizontal rail by two injection-molded clips. The wireway design shall allow for the snap connection of the rigid wireway of one panel to another through the use of panel jumpers. All panels 24" and wider are ready to accept electrical components.

Base Infeeds

The electrical system shall permit power infeed along the base raceway of the panel. Base feed power shall feed into the rigid wireway of the panel raceway. The base feed shall be constructed of a 6' long 1/2" liquidtight flexible metal conduit that contains ten wires with a receptacle type design allowing for quick installation and removal. The infeed shall be specified as left or right configuration.

Top Infeeds

The electrical system shall permit power infeed through the top of the panel. The top feed assembly shall consist of a 7' extruded aluminum power pole, top cap and ceiling trim and 12' flexible conduit containing ten wires to span the ceiling with a snap fit attachment for connection to the rigid wireway. The interior of the power pole shall be divided for power and communication management.

Data Top Feed

The data top feed consists of a 7' aluminum extruded power pole, top cap, and ceiling trim pieces, but does not include power infeed wiring.

Power Pass Through

The electrical system shall provide for a method of passing power from one powered panel through the raceway of a non-powered panel and connected to the powered rigid wireway of the next panel. This power pass through shall attach from the one powered panel to the next with a snap fit connection that requires no tools for assembly.

Receptacles

The receptacles for the modular electrical system shall be injection molded components which press fit into the rigid wireways of the panels. The rated capacity of the duplex receptacles shall be 15 amps.

Electrical System Test Requirements

The panel system, including the modular US electrical components, shall be listed to applicable UL standards and requirements by Underwriters Laboratories, Inc.

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WORKSURFACES AND ACCESSORIES

Worksurfaces shall be available with high-pressure laminate and three edge styles. Surface shall be constructed of a 45 pound density particleboard core. The laminate worksurface cores shall be encased in a .028" phenolic backer and a .030" face sheet of high-pressure laminate. Laminate worksurface edges shall be trimmed with either a 3mm PVC edge banding, extruded flat vinyl T-molding, or an postformed/elliptical front edge with color matched .024" vinyl edge banding on all other edges. All worksurfaces with a flat vinyl T-edge shall be pre-drilled for cantilever brackets and hanging pedestals. Corner surfaces shall be pre-drilled for keyboards. The 60" wide surfaces shall have an integrated steel reinforcement to allow adequate support for load bearing. Worksurfaces 60" and wider shall include additional left-hand cantilever bracket. The worksurface shall be supported by one piece 14 gauge steel cantilever brackets. These brackets shall prevent dislodgment by the use of an integral top bracket tooth.

Rectangular Worksurfaces

The standard rectangular worksurface shall be offered in widths of 24", 30", 36", 42", 48", 54", 60", 66", 72", 78", 84", 90", and 96". The worksurfaces shall be offered in 24" and 30" depths.

Mitered Worksurfaces

Mitered worksurfaces shall be offered in 24" and 30" depths with widths of 30", 36", 42", 48", 54", 60", 66", 72", 78", 84", 90", and 96". (NOTE: 30" deep surface with 24" and 30" widths not available). The mitered worksurface is not available with a flat vinyl T-molded edge.

90° Corner Worksurfaces

The 90° worksurfaces shall be available in: diagonal, curvilinear, dual curvilinear, and wing options in various widths and depths. The postformed/elliptical edge is not available in the laminate series when the front edge is curved. The postformed/elliptical edge shall be available on straight edged corner surfaces. The 90° diagonal corner worksurface will have a center round grommet as standard with T-mold edge. The curvilinear, dual curvilinear, and wing options will have rectangular shaped grommets as standard.

Countertops

The countertops shall be offered in widths of 24", 30", 36", 42", 48", 54", 60", 66", 72", 78", and 84" with a countertop depth of 16". Countertops shall also be available for 90° corner. Construction of the countertops shall be identical to the construction for the rectangular worksurfaces. The bracket to support the countertops shall consist of steel brackets and locking clips to prevent dislodgement. The brackets are mounted on the inside of the workstation allowing for a 4" extension over the top of the panel to conform with ADA guidelines. The countertops will also accommodate a task light.

Worksurface Support Panels

The support panels shall be available in the following sizes: 26" and 29" height and 24" and 30" depth. The worksurface support panel shall be 1¼" thick and constructed of 45-pound density particleboard with high-pressure laminate on both sides and high-pressure laminate on one side with fabric on the other side. The front edge of the high-pressure laminate panel shall be either a flat vinyl T-edge, 3mm PVC edge, or a postformed/elliptical edge. The worksurface support panel brackets shall prevent dislodgement from the vertical post of the panel. There shall also be an 18 gauge support bracket that attaches to the side of the support panel and to the underside of the worksurface.

Variable Height Front Surface Adjustment Mechanism

The variable height adjustment mechanism mounts underneath the dual curvilinear front worksurface and is available in black powder-coated finish only. The construction shall be steel construction finished in a durable black powder coat and offers front surface height adjustment and tilt. Height adjustment of 5¾" below and 7" above worksurface. Tilt adjustment of 9° positive and 15° negative. Mechanism has a 20# capacity spring assist for ease of adjustment.

Carousels

A 18" wide by 16½" deep carousel shall be offered. The carousel shall be ¾" particleboard with .030" high-pressure laminate and .028" phenolic with vinyl molding around perimeter. A ball-bearing turntable below the carousel shall allow for 350° rotation. The mechanism shall rest on a ⅛" rubber pad.

Worksurface Grommets

Circular worksurface grommets, 2¾" I.D. and 3" O.D. shall be standard on T-edge worksurfaces. Trapezoidal shaped worksurface grommets 2½" x 6" shall be standard on 3mm PVC edge, postformed/elliptical edge laminate. The worksurface grommet shall be a two-piece molded component with the ability to remove the top cover to allow full access to the grommet hole.



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Worksurface Vertical Fillers

A worksurface vertical filler shall be available to fill the gap when one worksurface drops from the standard 29" down to an adjacent 26" secretarial typing height worksurface. Worksurface vertical fillers shall be available in 24" and 30" widths. The height of the worksurface vertical filler shall be 3". The construction of the worksurface vertical filler shall be 16 gauge steel, powder-coated to match the trim colors of the panel. The worksurface vertical filler shall be attached to the worksurface through the use of wood screws.

Worksurface Wire Manager

Constructed of high-quality black velcro 7½" wide by 2" deep. The harness is fastened to the underside of the worksurface with pressure-sensitive adhesive. This wire manager supports cords and communication cables under the worksurface.

CPU Sling

Vertical CPU sling supports and stores the CPU beneath the worksurface providing a 360° swivel and 5½" travel range. The CPU sling is constructed of a steel mounting plate with 17¾" track which attaches to the underside of the worksurface. Front and back bumpers are included to prevent over travel. CPU sling is held by an adjustable strap to accommodate most computers and has a positive locking clamp. The CPU sling is finished in durable black powder coat.

Adjustable/Securable CPU Holder

The adjustable/securable CPU holder shall be available in three models: the basic with a slide mechanism permitting 5" of forward travel, the basic with adjustable covers for enhanced aesthetics, and the basic with covers and security kit. The CPU holder shall accommodate CPUs that are vertical 11" to 21", horizontal 2" to 10½", and a depth of 16" maximum for the security kit. Covers and security kits shall also be available for retrofit or replacement to the basic unit. Shall be available in black only.

Fully Adjustable Keyboard Tray

The keyboard mechanism shall be fully adjustable front-to-back with tilt adjustment and storability. The tray shall slide in and out on a ball bearing mechanism. The adjustable tray shall rotate 359°, adjust vertically 5½", and tilt 15° down and 15° up. The mechanism that supports the keyboard pad passes all appropriate BIFMA tests. The construction of the keyboard tray shall be molded plastic with non-skid surface and molded palm rest. The keyboard tray shall measure 22⅝" wide by 11" deep.

Fully Adjustable Keyboard Tray With Mouse Tray

The keyboard mechanism shall be fully adjustable front-to-back with tilt adjustment and storability. The tray shall slide in and out on a ball bearing mechanism. The adjustable tray shall rotate 359°, adjust vertically 5½", and tilt 15° down and 15° up. The mechanism that supports the keyboard pad passes all appropriate BIFMA. The construction of the actual keyboard tray shall be molded plastic with non-handed sliding mouse tray and molded palm rest. Keyboard tray shall measure 21¼" wide by 11¼" deep. The mouse tray measures 9" wide by 9" deep. The keyboard tray and mouse tray shall be available in black only.

Sliding Keyboard Drawer

Drawer shall consist of molded plastic tray mounted to steel ball bearing drawer slides. Drawer slides are 16" long with height adjustment at 3", 3½", or 4". The keyboard tray shall be molded plastic with non-skid surface and molded palm rest. Keyboard tray shall measure 22⅝" wide by 12" deep.

Sliding Keyboard Drawer With Mouse Tray

The sliding keyboard drawer with mouse surface shall be the same construction as the keyboard drawer with the addition of a non-handed mouse tray of molded plastic. The sliding keyboard tray with non-handed sliding mouse tray shall be molded plastic with non-skid surface and molded palm rest. Keyboard tray shall measure 21¼" wide by 11" deep. The mouse tray shall measure 9" wide by 9" deep. The sliding keyboard drawer with mouse tray shall be available in black only.

Center Drawers

A locking center drawer shall be available with a minimum size of 2½" height, 17⅞" width, and 17" depth. The center drawer shall be a one-piece molded design with ball-bearing slides.

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OVERHEAD STORAGE AND ACCESSORIES

Overhead Cabinet Task Lights

Task lights which suspend from the shelf and overhead cabinet shall be available. The task light shall mount flush with the underside of the shelf and overhead cabinet. Task lights shall be offered in standard panel trim colors. The task light shall have a 8' cord. Task lights will be available in three versions: standard high-power factor ballast, variable (high/low) high-power factor ballast, and electronic ballast. All three options include a cool white lamp. Cords can be concealed by tucking between the reveal along tiles.

Low Shelf

The product shall be offered in widths of 24", 30", 36", 42", 48", 54", and 60". The overall dimensions of the end panels shall be 9½" high and 14½" deep. The shelf depth shall be 13¼". Each shelf shall include separate brackets which allow for either on- or off-module mounting. On-module shelf shall mount into slots in vertical posts. Shelf must be same width as the panel to which it is mounted. Off-module shelf shall mount into the integral track in the horizontal rail, allowing shelf to slide along track. The end panels shall be constructed of 14 gauge steel with a powder-coat finish. The shelf shall be an 18 gauge 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.

Regular Shelf

The product shall be offered in widths of 24", 30", 36", 42", 48", 54", and 60". The overall dimensions of the end panels shall be 16½" high and 14½" deep. The shelf depth shall be 13¼". Each shelf shall include separate brackets which allow for either on- or off-module mounting. On-module shelf shall mount into slots in vertical posts. Shelf must be same width as the panel to which it is mounted. Off-module shelf shall mount into the integral track in the horizontal rail, allowing shelf to slide along track. The end panels shall be constructed of 14 gauge steel with a powder-coat finish. The shelf shall be an 18 gauge 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.

Overhead Cabinet

The product shall be offered in widths of 24", 30", 36", 42", 48", 54", and 60". The overall dimensions of the end panels shall be 16½" high and 14½" deep. The shelf depth shall be 13¼". Each cabinet shall include separate brackets which allow for either on- or off-module mounting. On-module cabinet shall mount into slots in vertical posts. Cabinet must be same width as the panel to which it is mounted. Off-module cabinet shall mount into the integral track in the horizontal rail, allowing cabinet to slide along track. Door fronts shall be offered in steel, fabric, and laminate versions with a dual-durometer PVC extruded handle. The door front will operate on a rack and pinion gear system and will utilize a center lock mechanism. The door front will store recessed inside the cabinet with the handle exposed. The steel door front shall be of honeycomb core construction with a powder-coat finish. The construction of the fabric door front shall be identical to the steel door front except that the outer surface of the door front is covered with fabric. The laminate door front shall be high-pressure laminate covering a particleboard core.

Shelf Dividers

Shelf dividers shall be offered in the same color trim as the panels. The shelf dividers shall be powder-coated steel. Installation or removal shall be accomplished without the use of tools or fasteners.



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PAPER MANAGEMENT ACCESSORIES

Wall Track

Wall track shall be available to allow for hanging of components onto an existing structural wall in the identical method as if the components were hung on PowerWorks panels available in 30", 66", or 84" lengths. The wall track shall consist of a double slotted 16 gauge steel with powder-coat finish in the panel trim colors.

Markerboards

Markerboards shall be available in 32" height and 30", 36", 42", 48", 54", and 60" widths. The markerboard shall be constructed of painted aluminum framed units with a white porcelain painted marker surface. The markerboard surface shall be magnetic with an eraser and markers. The markerboards will mount in the vertical post rail slots of a panel the same width as the board or to wall track.

Tackboards

Tackboards shall be available in 12", 16", 30", and 48" heights and in 24", 30", 36", 42", 48", 54", and 60" widths. The tackboard shall be constructed of $\frac{3}{4}$ " industrial insulationboard covered with fabric. The mounting brackets shall be steel powder coated and attached to the coreboard with T-nuts and machine screws. Fabric shall be attached to the coreboard with staples.

Tool Rail

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 panel through the use of steel brackets. The tool rail shall support all paper management accessories.

Hanging Folder Holder

The hanging folder holders shall be of plastic construction. Shall allow letter and legal hanging file folders to be suspended from tool rails. Shall be one pair of hanging folder holders in each set.

Plastic Paper Tray

The legal and letter sized paper trays shall be of injection-molded plastic construction. The paper tray shall be supported by the tool rail.

Plastic Diagonal Storage Unit

The diagonal storage unit shall be of injection-molded plastic construction. Three injection-molded and painted ABS dividers shall be able to be used in left or right positions. The diagonal storage unit shall be supported by the tool rail.

Plastic Vertical Diagonal Storage Unit

The vertical storage unit shall be of injection-molded plastic construction. Shall be supported by the tool rail.

Telephone Caddy

The telephone caddy shall be available 8 $\frac{1}{2}$ " wide by 2" high by 9 $\frac{1}{2}$ " deep. Caddy shall be adjustable to accommodate a phone up to 10 $\frac{3}{4}$ " deep. Caddy shall include three hooks for suspending from tool rail.

CD Holder

CD holder shall measure 5 $\frac{1}{2}$ " wide by 2" high by 7" deep and include two hooks for mounting to tool rail. Holder shall accommodate up to 10 CDs. Holder shall be suspended from tool rail or used freestanding on worksurfaces and shelves.

Accessory Tray

The accessory tray shall measure 9 $\frac{1}{2}$ " wide by 2" high by 10" deep and include three hooks for mounting to tool rail. Tray shall have compartments to hold pencils, paper clips and miscellaneous items. Tray shall be suspended from tool rail or used freestanding on worksurfaces and shelves.

Pencil Cup

The pencil cup shall be 4" wide by 4" high by 3 $\frac{1}{2}$ " deep. Cup shall provide for storage of pens, pencils, and highlighters. Two hooks shall be provided for mounting on tool rail.