

PRODUCT SPECIFICATIONS

Passel Collection

Desking System

November 2025

TECHNICAL SPECIFICATIONS

Overview

The Passel Desking System features three unique rail systems to include: standard rail, panel rail, and the 120-degree rail. Each rail system utilizes a similar beam assembly, but includes either legs or panels to make up the core of each different rail system.



Standard Rail System

Standard rail configurations feature an open and minimalist aesthetic, where the rail assembly is visible and a featured element. Legs make up the end of each rail assembly. Rail intersection legs or worksurfaces planned perpendicular to the rail connect directly to the beam of the rail assembly to provide support and stability for the standard rail configuration.

Panel Rail System

Panel rail configurations feature legs concealed by vertical laminate end panels. Panel rail supported configurations are more structural, portraying a traditional aesthetic utilizing rectilinear worksurfaces that run parallel to the rail beams, on one or both sides, and include the laminate panel legs which also conceal the rail assembly, making it less visible. In the panel rail system, return worksurfaces are optional and when specified, they install to the edge of the adjoining rectilinear worksurface, rather than to the rail's beam.

120 Degree Rail System

The 120-degree rail system incorporates two- and three-way 120-degree intersection legs, as well as 120-degree worksurface support legs which are end and inline, and can be single- or dual-sided to extend the rail system and create various configurations using the two available 120-degree table styles. Rail assemblies bridge between the intersection and worksurface support legs, allowing for many possible configurations with worksurfaces on one side to be single-sided, or on both sides of the beam to be dual-sided. The two table styles available are pinwheel and the 120-degree worksurface.

Rail Assemblies

Beams

The beam assembly is the structural horizontal portion of the rail assembly and consists of an extruded aluminum primary upper and an extruded aluminum secondary lower beam which each attach at both ends to a leg or panel using gussets and hardware. The upper beam is $2\frac{1}{8}$ " in height by $3\frac{1}{2}$ " deep. The lower beam is 1" high and $2\frac{1}{16}$ " deep. The upper beam, when specified suspends the installed electrical system, and the lower beam may be specified to hold modesty panels underneath. The space between beams is enclosed using a toolless push-on vertical cover at each side. When specified, the vertical covers have cutouts for electrical receptacles and data jack plates. The covers serve to keep all electrical components contained inside the beam. The beams are powder-coat painted, ship disassembled and include all gussets, mounting blocks, and attachment hardware.

Standard Rail Beams

Beams for standard rail configurations secure to intersection legs, shared inline, or end legs with feet, and require perpendicular support attached to the beam for stability. Return worksurfaces provide the necessary support by mounting either directly to the beam, or to a standard rail cubby storage unit installed on the beam.

Panel Rail Beams

Beams for the panel rail system are specified as standalone, end, or middle and they attach to various panel legs which provide perpendicular support. The difference in beam types accounts for varied dimension differences due to leg dimension and placement. Rectilinear worksurfaces install to the panel rail beam and to panel legs to become an integrated part of the system.

Rail Assemblies (cont.)



Beams (cont.)

120 Degree Rail Beams

Two beam types specified for the 120-degree rail system are the 120-degree standard rail beam, and the 120-degree connection beam, with each style designed for a specific purpose. The 120-degree standard rail beam comes in two sizes, 42" and 48", and join at one end to a 120-degree intersection leg, and at the other end to an end worksurface support leg, allowing the end leg to mount flush to the edge of the pinwheel or 120-degree worksurface. The connection beam comes in two sizes as well, but the 42" beam actual length is 43.17" and the 48" beam is 49.17". The connection beams join to a 120-degree intersection leg at one end, and an inline worksurface support leg at the other end, allowing the 120-degree worksurfaces to join tight to each other in configuration.

Beam Electrical

Three electrical systems are available to choose from: 810 10-wire in 6-2-2 or 4-4-2 configurations, Pattern single-circuit, and hardwired electrical. Reference the "Electrical" specifications on page 5 for more information.

Standard Rail Legs

Standard rail leg construction includes a powder-coat painted vertical aluminum extrusion 2" wide by 3 1/2" deep by 26 1/4" high including the foot. Legs are specified as either end or inline and include leveling glides. A pair of end and/or inline legs add 4" to the width of the beam and to the total rail assembly width. For example: one 48" standard rail beam with two standard rail end legs equal an overall rail length of 52".

Standard rail intersection leg construction includes a vertical aluminum extrusion 3 1/2" wide by 3 1/2" deep by 26 1/4" high and they have no feet. Intersection legs are intended for use in a 2-way, 3-way, and 4-way 90° intersection conditions. Each intersection leg includes an adjustable glide for leveling.

Panel Rail Legs

Panel rail leg construction includes a powder-coat painted vertical aluminum extrusion 2" wide by 3 1/2" deep by 29" high attached to a 3/4" thick laminate panel. Legs are specified as either end or inline, along with being single- or dual-sided. Panel legs include leveling glides on the aluminum extrusion and the ends of the panels. Panel end legs increase the overall rail assembly length by 1 1/2" in total. (3/4" per leg).

120 Degree Rail Legs

The 120-degree intersection leg construction is of a powder-coat painted squared-off triangle-shaped aluminum extrusion, 4 1/16" on each of the three sides which serves to install beams at 120-degrees from one another. Legs may be specified for 2-way or 3-way intersection conditions. The leg is 26 1/4" tall, and at the top is a machined aluminum top cap. The intersection leg has no foot on the bottom, but includes an adjustable glide for leveling.

The 120-degree worksurface support leg assemblies install at 90-degrees to the beam assembly of the rail system, either to a standard rail beam, or to a connection beam. The worksurface support legs can be single- or dual-sided and inline or end, depending on the location in a 120-degree worksurface configuration. The inline or end leg member, when installed at the back of one, or a pair of dual-sided worksurfaces consists of a 2" x 3 1/2" by 29" high aluminum extrusion, which contains a cast aluminum top cap, and an adjustable glide on the bottom. Support leg(s), either single- or dual-sided and either inline or end secure to the aluminum extrusion using 14-gauge bracket(s) and #10-24 screws. The outward mounting 120-degree support leg assembly construction consists of 16-gauge square steel tube weldment construction with 11-gauge formed steel worksurface support bracket(s) welded on the top for attachment to the underside of worksurfaces. At the bottom of the vertical leg member is an adjustable glide. All worksurface support leg components are powder-coat painted. The two types of worksurfaces which may be configured with the 120-degree legs are the pinwheel and the 120-degree worksurface.



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Return Worksurface

Return worksurfaces are offered in two thicknesses, two depths (24" & 30"), along with widths from 42" to 72" in 6" nominal lengths. Tops are pre-drilled for worksurface cantilever brackets and return support legs.

The $\frac{3}{4}$ " worksurfaces are constructed of $\frac{3}{4}$ " thick, 45-pound density particleboard core. Adhered on the top is a .030" face sheet of high-pressure laminate, and on the underside is a .030" phenolic backer. Total worksurface thickness .808". 73P edge profile is offered on the worksurface.

The $1\frac{1}{4}$ " worksurfaces are constructed of $1\frac{1}{4}$ " thick, 45-pound density particleboard core. Adhered on the top is a .030" face sheet of high-pressure laminate, and on the underside is a .030" phenolic backer. Total worksurface thickness is $1\frac{1}{4}$ ". 74P edge profile is offered on the worksurface.

Return Worksurface Support Legs

Steel return worksurface support legs are a fixed-height "goalpost" style, constructed of $1\frac{1}{2}$ " square tubing, miter cut and welded to the horizontal member for a seamless look. Included is a welded-on formed-metal worksurface support bracket at the top member. Glides thread into a weldment in the underside of each leg and offer $\frac{7}{8}$ " of height adjustment for uneven floors. The leg height is $28\frac{1}{4}$ " with leveling glide and is offered in 24" and 30" depths to support the fixed worksurface in 24" or 30" depths. Steel return worksurface legs are powder-coat painted and are offered in a variety of colors. Legs are ordered separately from the return worksurface.

Wood return worksurface support legs are a fixed-height tapered style, constructed from $1\frac{1}{4}$ " thick hardwood, with legs tapering from $3\frac{9}{32}$ " x $1\frac{1}{4}$ " at the top to a round $1\frac{1}{4}$ " at the bottom. Legs spread out from the top worksurface brackets and are angled out and away toward the floor. Legs attach to three steel worksurface brackets at the top for stability. Glides thread into an insert in the bottom of each leg and offer $\frac{7}{8}$ " of height adjustment for uneven floors. The leg height is $28\frac{1}{4}$ " including the leveling glides and worksurface brackets, are offered in two depths to support the fixed worksurface in 24" or 30" depths. Steel worksurface brackets are powder-coat painted, and wood legs are offered in a variety of stain colors and are clear-coat sealed. Legs are ordered separately from the return worksurface.

Rectilinear Worksurface

Rectilinear worksurfaces are specified for installation onto the panel rail system only, and are the same construction as the return worksurface offered in $\frac{3}{4}$ " and $1\frac{1}{4}$ " tops. Rectilinear worksurfaces come in the following widths: 12", $13\frac{3}{4}$ ", 18" and 24" and are installed to run parallel to the beam. Worksurface cantilever brackets under the worksurface mount to the beam, and angle brackets included on the panel rail legs attach to the worksurface at the ends. The quantity of cantilever brackets vary by length of the worksurface. Cubbies and/or cabinets, with supports, can be placed and installed onto the rectilinear worksurfaces.

Extended Return Worksurface

Extended return worksurfaces are boot-shaped with the longer extension end mounting to the beam of the standard rail system using cantilever brackets, or to a rectilinear worksurface of the panel rail system with splice plates. Extension dimension is 36" for the 24" depth worksurface, and 42" for the 30" deep worksurface. Similar as standard return worksurfaces, extended return worksurfaces are offered in two depths, 24" and 30" and widths from 60", 66" and 72" in 6" nominal lengths. Extended return worksurfaces are offered in right- and left-hand models and are of the same construction as the rectangular-shaped return worksurfaces, offered with $\frac{3}{4}$ " and $1\frac{1}{4}$ " thick tops and require either a steel or wood return wood leg at the end, to be specified separately.

Peninsula Worksurface

Peninsula worksurfaces have a D-shaped end, are available in two depths, 24" and 30", and come in lengths of 42" through 60" in 6" nominal lengths. They mount to the beam of the standard rail system using cantilever brackets, or to a rectilinear worksurface of the panel rail system with splice plates. They are of the same construction as the rectangular-shaped return worksurfaces, offered with $\frac{3}{4}$ " and $1\frac{1}{4}$ " thick tops. The worksurface requires a peninsula leg installed at the end, to be specified separately. When attached to the standard rail, if installed more than 6" from the end of rail, a beam intermediate leg must be specified and installed for added support. For panel rail installations to rectilinear worksurfaces, specify surface-to-surface connection to receive splice plates. For standard rail system installation to beams, specify rail cantilever support to receive cantilever brackets.

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Desking Cable Tray

Desking cable trays are an optional accessory so must be ordered separately. Cable trays are formed from 16-gauge steel, are offered in two widths, 24" and 44", and can be mounted to the return worksurface underside. The trays are L-shaped with a solid steel back that faces the back non-user side of the worksurface. The front of the tray is open towards the user for easy cord management while the bottom includes multiple access holes to allow cords to drop to the floor. The tray is secured to the return worksurface with #10-16 x $\frac{5}{8}$ " screws.

Return Worksurface Screens

Felt screens are an optional accessory so must be ordered separately. They are constructed from a $\frac{1}{2}$ " thick sound-absorbing, 100% polyester felt. The panels have a density of 0.5 lb/ft³ and are sound absorbing tested to ASTM C423 with an NRC rating of .44 when using no air gap (A Mount testing method) and an NRC rating of .81 with 2" air gap. The polyester felt is in accordance with ASTM-E84 and achieves a Class A Flame Spread.

Fabric screens are constructed using $\frac{7}{16}$ " thick, 7.7 lb/ft³ fiberglass core board, wrapped in a fabric cover using approved fabric adhesive. The fiberglass core board is tested per ASTM C423 with an ARC rating of S5.

Screens are secured to two or three 11-gauge steel formed brackets using two #10-32 knurled thumb screws per bracket.

Rail Modesty Panels

Rail modesty panels are designed to mount under the lower beam of the beam assembly. An 18-gauge steel channel secures first to the underside of the lower beam, then the top of the modesty panel attaches into that steel channel. Modesty panels are available in $\frac{1}{2}$ " polyester felt or $\frac{1}{4}$ " acrylic. Felt panels are of the same construction as the felt screens.

Rail Screens

Frameless Rail Screens

Frameless rail screens install onto the top beam of the rail assembly, of standard and panel rail systems. An extruded aluminum U-channel installs first using thread-forming flat head screws into plates which are slid into the T-slot at the top beam of the rail assembly. The 1" screen is then set in place and press-fit into the U-channel using screen-width steel hem inserts. Frameless screen material is constructed of 1" polyester felt material and are available in 15", 21" and 27" heights and various standard widths between 18" through 66" in 6" nominal lengths, and 68" through 84" in 2" increments. Widths specified may not exceed the beam width they will install onto. Frameless screens may be specified with either square or rounded top corners.

Framed Rail Screens

Framed rail screens have sides and top perimeter construction is of $1\frac{1}{4}$ " x $1\frac{1}{4}$ " extruded aluminum square tubing, miter cut at the corners and joined with screws and steel brackets internally. Framed screens offer square corners only. Each screen is mounted into the channel in the top beam of the rail assembly. Three screen core styles are offered: $\frac{1}{2}$ " polyester felt, $\frac{1}{2}$ " tackable fabric, and $\frac{1}{2}$ " magnetic dry-erasable steel. Framed rail screens are available in three heights, 15", 21", and 27", with above finished floor overall heights of 42", 48" and 54" respectively. Widths are available from 24" to 84" in 6" nominal lengths.

Under Storage Rail Screens

Under storage rail screens may be specified as either $\frac{1}{2}$ " polyester felt, or $\frac{1}{4}$ " acrylic material. The screen material is pressed into an aluminum channel and the screen assembly is press-fit into the channel in the top beam of the rail assembly, installed under a cubby or cabinet to separate workspaces in dual-sided applications. Screens are available 6" high to mount under cubbies, and 12" high to mount under cabinets. All nominal widths come as two separate rail screens to accommodate middle support legs of cubbies and cabinets.

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Cubbies & Cabinets



Standard Rail Cubby

Standard rail cubbies are single high, 15³/₄" high by 13³/₄" deep by 42", 48", 54", 60", 66" and 72" wide. Cubbies mount directly to the beam through cast aluminum cantilever brackets. They are made with ³/₄" laminate and steel side sets. Two styles of cubbies are offered; the single-sided unit and the shared unit. The single-sided cubby has the open compartments facing one side only. The shared cubby is divided in the center with each half open to the opposite direction.

Panel Rail Cubby

Panel rail cubbies are single-height and two compartments wide, constructed in part using ³/₄" laminate, faced both sides and with edge band to make up the top, bottom, back and middle divider panel. Cubby is supported on each side by a rigid welded end frame assembly made of 1¹/₄" square vertical tubes with 1¹/₄" x 1⁵/₈" U-channel welded at the top, horizontally between the uprights, with welded-on angle brackets for attachment. They come in three styles: single-sided, shared, and dual-sided. The single-sided cubby has a back and a front, is divided in the center and has the open compartments facing the same side. The shared cubby is divided in the center and has one opening facing one side, and the other opening facing the opposite side. The dual-sided cubby has two open compartments facing each side. Dual-sided spans over the rail and the backs of a pair of dual-sided rectilinear worksurfaces. Installation of a beam intermediate leg is required under the dual-sided cubby. All panel rail cubbies are 15" high overall. Single-sided and shared cubbies are 13³/₄" deep, while dual-sided cubbies are 27¹/₂" deep. All cubbies come in widths of 42" through 72" in 6" nominal lengths. The cubbies sit directly on top of the rectilinear worksurface(s) and are secured in place with a two-piece lock bracket. This bracket is fastened to the middle of the side set at the bottom, then secured to the underside of the worksurface it is over.

Panel Rail Cabinet

Panel rail cabinets are constructed primarily of steel and are offered with steel top and door fronts, or with laminate top and door fronts. Hinged doors are lockable. Cabinets offered are single-sided, shared, and dual-sided. The steel base of each cabinet is supported on each side by a rigid welded end frame assembly made of 1¹/₄" square vertical tubes with 1¹/₄" x 1⁵/₈" U-channel welded at the top, horizontally between the uprights, which attach to the top to the cabinet. At the bottom of panel rail mounted cabinets at each end is a steel bracket which is offset to connect the cabinet to under the worksurface. All units have an additional 1¹/₄" square support post in the middle.

Cubby & Cabinet Frame Inserts

Laminate and polyester felt (PET) frame insert panels are available to enclose the open frame at the ends of the cubby or cabinet frames and are specified separately.

Electrical

810 10-Wire Electrical System

The US standard electrical system available on Passel desking system is an 810 10-wire electrical system (20 amps per circuit). 10-wire rigid wireway harnesses are mounted within the wire management channel located beneath the upper beam. The rigid wireway is accessible on both sides of the beam. Power is supplied through a 6-2-2 configuration with six hot wires, two shared oversized neutral wires and two ground wires (one isolated ground and one building ground) or through a 4-4-2 configuration with four hot wires, four neutral and two ground wires (one isolated ground and one building ground). Rigid wireways pass power to 15-amp receptacles. The 810 10-wire electrical system is UL Listed per the UL 183 standard.

10-Wire Rigid Wireway Kits

10-wire rigid wireways are specified separately for each beam intended to receive power. Wireway kits are specified by beam length. Wireways up to 60" wide include two receptacle locations per side for a maximum of four receptacle locations. Beams 66" wide or larger contain two 24" wireways, each supporting one receptacle location per side (also a total of four receptacles locations) along with an adjoining 10-wire power jumper. The wireway design allows for snap connection of one wireway to another though the use of common 10-wire power jumpers. The kit includes the mounting hardware to suspend the rigid wireway to the upper beam.



Electrical (cont.)



810 10-Wire Electrical System (cont.)

10-Wire Duplex Receptacles

15-amp 10-wire duplex receptacles for the modular electrical system feature injection molded components which snap fit into the 10-wire rigid wireways which are field installed in the beam. Specify either 6-2-2 or 4-4-2 configurations.

10-Wire Power Jumper

20" beam-to-beam power jumpers feature steel casing and are used for inline and corner connections. Specify either 6-2-2 or 4-4-2 jumper to connect rigid wireways between adjacent beams.

10-Wire Top Power Infeed Kit

Power and data may be brought into the Passel desking system using a 10-wire top power infeed. Top infeed assembly consists of a 10' extruded aluminum data and/or power pole, top cap and ceiling trim and must be specified as either an end or middle position. The interior of the power pole features a septum for power and data cable separation. Specify either 6-2-2 or 4-4-2 power to receive the appropriate electrical whip with the pole. When no power is selected, the user receives an empty pole to be used for data cables only.

10-Wire Base Power Infeed Kit

Power and data may be brought into the Passel desking system using a 10-wire base power infeed. Base infeed assembly can be routed from the inside of end legs or either side of inline legs, however, not on the outside of an end leg. The base infeed kit includes an aluminum cover to conceal the conduit. Specify either 6-2-2 or 4-4-2 power to receive the appropriate electrical whip. When no power is selected, the user receives the cover to be used for data cables only.

Pattern Single-Circuit Electrical System

Passel desking system can be configured with the Pattern single-circuit electrical system. The Pattern electrical system is ETL Listed, evaluated to safety standard UL 962A (USA) and CAN/CSA-C22.2 NO. 308 (Canada). It allows for a maximum of up to ten distribution blocks and up to 50' of Pattern power jumpers from the Pattern power infeed (in either direction), whichever comes first. Pattern is a non-sequential system and the infeed is compatible with ground fault interrupter (GFI/GFCI) outlets. Power modules for Pattern are specified separately.

Pattern Power Distribution Blocks

Pattern power distribution blocks are standalone connectors, each containing four port locations. Distribution blocks are included with appropriate power jumper and power infeed kits, so do not need to be ordered separately. Distribution blocks bring the power infeed, power jumpers and power modules together and allow power to be efficiently supplied to each beam. Two distribution block types are included with the Pattern system, grey and white.

Pattern Power Jumper Kits

Pattern jumper power kits come with one grey distribution block and appropriately sized power jumper. Jumpers are nonsequential and are keyed on each end to connect between distribution blocks. Power jumper kits are ordered separately, and are used to carry power from beam-to-beam according to layout configuration.

Pattern Power Infeed Kits

The Pattern power infeed kits must be ordered separately. Site configurations vary and will affect the number of power infeeds required. The number and size of beams, as well as the number of receptacles per beam, and amperage needs in each ganging configuration will determine the number of power infeed kits required at any given installation. Infeeds can be installed anywhere in the run. Kit comes with one grey Pattern power distribution block, one 12" power jumper, one white Pattern power distribution block and Pattern power infeed cord. Power infeed consists of a 15-amp plug on one end of the 108" cord and keyed connector at the opposite end of the cord. Kit includes a vertical wire manager. A Pattern quick-release tool is also included to assist with disconnecting connector ends from distribution blocks.



Electrical (cont.)

Hardwired Electrical System

Empty junction box and bracket are supplied in accordance with the National Electric Code. Hardwired electrical components are intended for use in installations where hardwiring is requested by local code (Chicago).

Empty junction box enclosures are constructed of 18-gauge galvanized metal in accordance with the National Electrical Code. Openings are for décor style receptacles and can be specified for one or both sides of the beam.

Base power infeeds are $\frac{3}{4}$ " diameter liquid-tight enclosed conduit. Top power infeeds are provided by field electrician and are run down the 10' aluminum power/data pole.

Hardwired electrical components are intended for use in installations where hardwiring is requested by local code (Chicago).

Power Modules

Snap-In RPT Power Module

Snap-in module consists of two simplex receptacle ports (rated at 15 amps/125 volts). Snap-in RPT fits securely into user facing cutouts located on the beam cover, mounted to the side of the beam assembly. The Snap-In RPT power module with the Pattern connector is rated at 15 amps/120 volts and is ETL listed. Snap-In RPT module is only available for use with the Pattern single-circuit electrical system.

Cord length is 40" with a Pattern connector. Snap-In RPT power modules are available in Black only.

