panels

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Panels are the basic building block for Leverage Workstations. The following is an overview of the basics of Leverage panels.

1. Panel frames are constructed of welded steel with an integrated baseboard (Conventional Panel) or have an inset baseboard enabling the baseboard to be covered to the floor (Floor-Flush Panel). Panels are 3” thick and panel widths are exact and are sized to eliminate dimensional increases (creep).
2. Levelers are included with the panel frame, and have an adjustment range of 2 ½” to allow for consistency of panel height.
3. Pass Through Holes are punched into the frame structure to enable the passage of communication cables. Up to 60 Category 5 communication cables can be accommodated in each hole.
4. All panels include one fixed horizontal rail 36” above the floor. Additional rails are located at 21”, 30” and 51” heights depending on the panel type selected allowing maximum planning flexibility.
5. Segmented with 30” Rail Panels allow for a cleaner aesthetic and element segmentation to align with worksurface height.
6. Acoustic Elements are the default elements for both inner and outer sides of the panel. A variety of optional element types are available including glass, accessory, whiteboard, metal, wood and laminate. Elements are available with a corridor width option which covers the vertical mounting channels, or a Floor-Flush option which extends to the floor when a baseboard is not required.
7. Monolithic Elements allow for a clean aesthetic.
8. Electric and Communication capabilities for panels are available above or below worksurface height.
9. Leverage offers a variety of glass options, either as an add-on to a single panel, as an add-on that spans over two panels, or as an add-on screen that also can span over two panels. Glass add-ons are available.
10. Top trims can span a single panel, or span across two panels to provide a clean aesthetic.
Leverage Panels are available in five heights to provide a variety of functions. The following outlines the benefits of each height.

- **30” high panels** allow for complete visual access and a clean above worksurface aesthetic. This height is ideal in benching type applications when above worksurface panel functions are not required.

- **42” high panels** allow for partial seated privacy. They provide the ability to add 12” high elements for functional heights from 30” to 42”. These panels meet LEED criteria for Daylight and Views.

- **66” high panels** allow for full seated privacy and partial standing privacy. They provide the greatest ability to add a variety of element types and allow for the mounting of overhead cabinets.

- **66” high panels** also provide full seated privacy and partial standing privacy. They offer the greatest ability to add a variety of element types and allow for the mounting of overhead cabinets.

- **36” high panels** allow for complete visual access while still allowing for above worksurface power access.

- **51” high panels** allow for full seated privacy and provide greater ability to add a variety of element types.

- **Height-adjustable tables** allow for efficient height-adjustability in personal workstations where no panels are used.
Gaskets are used to conceal the slots between panels

Below are applications that are used when using the Wide Gaskets (KGWP).

**wide gasket with standard width element**

When using Standard Width Elements the Wide Gasket will conceal the slots between panels when used facing forward while still allowing for mounting brackets due to the flexible nature of the material.

**wide gasket with corridor width element reversed**

When using Corridor Width Elements the Wide Gasket will conceal the slots between panels.

**wide gasket with standard width element reversed**

When using Standard Width Elements the Wide Gasket will not conceal the slots between panels if the gasket is reversed.
Below are applications that are used when using the Slim Gaskets (KGSA).

**slim gasket with standard width element**

When using Standard Width Elements the Slim Gasket will **not** conceal the slots between panels, they will be exposed.

**slim gasket with corridor width element**

When using Corridor Width Elements the Slim Gasket will conceal the slots between panels.

It is recommended when planning with Slim Gaskets, which leave the slots exposed, that the Segmented Panel with 30” Rail (KP_L) be used, therefore minimizing the amount of slots that will be seen.
The following outlines the panel types available.

- Leverage offers four panel types: Standard (KP_T), Semi-Segmented (KP_S), Segmented (KP_C) and Segmented – 30” Rail (KP_L). Each provides varying levels of segmentation.
- Each panel type 36” high and above is available with six panel frame styles: Conventional, Universal, Elevated, Floor-Flush.
- The 30” high panel type is available with three panel frame styles: Conventional, Elevated and Floor-Flush.
- All rails, (other than the 36” high fixed rail) can be relocated, therefore, the 21” high rail on a Segmented Panel (KP_C) can be moved to 30” high to convert the panel to a Segmented 30” high Rail (KP_L).

<table>
<thead>
<tr>
<th>Conventional &amp; Universal Panels (Universal shown)</th>
<th>Elevated Panels</th>
<th>Floor Flush</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Standard</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• fixed rail at 36” high</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Semi-Segmented</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• fixed rail at 36” high</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 1 rail added</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Segmented</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• fixed rail at 36” high</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 2 rails added</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• lower rail at 21” high</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Segmented - 30” high rail</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• fixed rail at 36” high</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 2 rails added</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• lower rail at 30” high</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
The following chart outlines the benefits of each Leverage Panel style.

<table>
<thead>
<tr>
<th>panel style</th>
<th>Conventional Frame (KPW)</th>
<th>Universal Frame (KPU)</th>
<th>Elevated Frame (KPE)</th>
<th>Floor-Flush Frame (KPX)</th>
</tr>
</thead>
<tbody>
<tr>
<td>benefits</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lay-In Cabling</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>(6 Category 5 cables @ 60% fill)</td>
<td>(40 Category 5 cables @ 60% fill)</td>
<td>(6 Category 5 cables @ 60% fill)</td>
<td>(6 Category 5 cables @ 60% fill)</td>
<td></td>
</tr>
<tr>
<td>Panel widths of 54” and 60”</td>
<td>☑</td>
<td>☑</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Application of Symmetric Glass Element (KETW) and Symmetric Architectural Glass Element (KEGW) at top level of panel</td>
<td>☑</td>
<td>n/a</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Application of Symmetric Glass Element (KETW) and Symmetric Architectural Glass Element (KEGW) at other levels besides top level of panel</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Power and Communication Outlet at worksurface height on 36” high panel</td>
<td>☑</td>
<td>n/a</td>
<td>☑*</td>
<td>☑</td>
</tr>
<tr>
<td>Elements to floor</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
<td>☑</td>
</tr>
<tr>
<td>Benching Height Panel (30” high)</td>
<td>☑</td>
<td>n/a</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

* No power at the base height
The following outlines the features of Conventional and Universal Panel Frames.

- Allows for a larger glass area in the top element because the Symmetrical Glass Element is used with it
Conventional - Standard Panel (KPWT)

Elements mount into the slots in the frame and are available to match each segment size or monolithic.

- Panel Add-Ons (KPO) can be added to the top of Standard and Universal Panels
- Cable lay-in capacity of 6 category 5 cables at 60% fill
- The thinner lay-in cable allows for a larger symmetric glass area in the top section
- A structural horizontal rail is always fixed at 36” from the floor (except for the 30” high panel)

Finishes
Frame and metal top trim are available in Foundation and Mica colors

Universal - Standard Panel (KPUT)

Elements mount into the slots in the frame and are available to match each segment size or monolithic.

- The glass is used to fit with the 3” high capacity lay in trough
- A structural horizontal rail is always fixed at 36” from the floor
The following outlines the features of Elevated and Panel Frames.
Elevated - Standard Panel (KPET)

- Panel Add-Ons (KPO) can be added to the top of Standard and Universal Panels
- Cable lay-in capacity of 6 category 5 cables at 60% fill
- The thinner lay-in cable allows for a larger symmetric glass area in the top section
- A structural **horizontal rail** is always fixed at 36” from the floor (except for the 30” high panel)

**Finishes**
Frame and top trims are available in Foundation and Mica colors

Elements mount into the slots in the frame and are available to match each segment size or monolithic.
The following outlines the features of Floor-Flush Panel Frames.
Floor-Flush - Standard Panel (KPXT)

- Panel Add-Ons (KPO) can be added to the top of Standard and Universal Panels
- Cable lay-in capacity of 6 category 5 cables at 60% fill
- The thinner lay-in cable allows for a larger symmetric glass area in the top section
- A structural horizontal rail is always fixed at 36” from the floor (except for the 30” high panel)

Finishes
Frame and metal top trim are available in Foundation and Mica colors
The following should be considered when selecting Conventional and Universal Panels.

### Planning with Conventional/Universal Panel Frames

#### In-line Planning (Without Worksurface for Support)

- The maximum panel run that can be achieved before a return panel is required is 192”.
- Return panels must be a minimum of 30” wide and be the same height as the run being supported.

#### In-line Planning (With Worksurface for Support)

- The maximum panel run that can be achieved when worksurfaces are supporting the panels and there is no additional floor support is 96”.
- An End Gable or return panel can be used.

#### Unsupported Panels

- A panel run without additional support, extending beyond an end condition **cannot** be more than one panel width, or a maximum of 60” wide.
- No mounted storage is allowed on the unsupported panel.

#### Off-module Planning

- Worksurfaces can be attached off-module (except 24” deep split corners).
- Must have segmented elements below surface to use Intermediate C-Leg.
- An Intermediate C-Leg is required for mounting worksurfaces off-module.
- Certain overheads can also be attached off-module. (See Filing & Storage: Application Guide for details.)
The following should be considered when selecting Elevated Panels.

**in-line planning (without worksurfaces)**

- The maximum panel run that can be achieved before a return panel is required is 192”.
- Return panels must be a minimum of 30” wide and be the same height as the run being supported.

**in-line planning (with worksurface for support)**

- The maximum panel run that can be achieved when worksurfaces are supporting the panels and there is no additional floor support is 96”.
- An End Gable or return panel can be used.

**unsupported panels**

- A panel run without additional support, extending beyond an end condition cannot be more than one panel width, or a maximum of 60” wide.
- No mounted storage is allowed on the unsupported panel.

**off-module planning**

- Panel-to-panel connections and off-module worksurface mounting is not permitted with elevated panels.
- Overheads are permitted by using the off-module overhead option.
The following should be considered when selecting Floor-Flush Panels.

**length of panel runs (without worksurface for support)**

- The maximum panel run that can be achieved before a return panel is required is 192”
- Return panels must be a minimum of 30” wide and be the same height as the run being supported

**in-line planning (with worksurface for support)**

- The maximum panel run that can be achieved when worksurfaces are supporting the panels and there is no additional floor support is 96”
- An End Gable or return panel can be used

**unsupported panels**

- A panel run without additional support, extending beyond an end condition cannot be more than one panel width, or a maximum of 60” wide
- No mounted storage is allowed on the unsupported panel

**off-module planning**

- Floor-Flush Panels and Elements do not accept off-module panel-to-panel adapters
planning with floor-flush panel frames (continued)

floor-flush elements

- Floor-Flush Elements standard width do **not** obstruct on- or off-module supports

planning with corridor width elements

- When planning with corridor width elements where metal baseboards are required, it is recommended that the Floor-Flush Panel be used
- Conventional or Universal Panels will always have the slots exposed on the base
- The Floor-Flush Panel allows the option to specify a corridor width baseboard
panel rail and panel add-on basics

The following should be considered when planning with Panel Add-Ons.

- The Panel-Add-On (KPO) is available in heights of 12”, 15”, 21”, 24” and 30”, panels can reach a maximum of 81” high
- The Panel-Add-On (KPO) cannot be used on a 30” high panel

Panel rail

If mounted at 42” datum height a Panel Rail Mounting Kit - 42” Datum Height (KPLD42) must be specified.

When specifying a Panel Rail, the Panel Rail width dimension code must match the width of the corresponding Panel.

The 36” rail is fixed in all panel types.

Panel add-on

With 3” Lay-In Channel

Symmetric with Cable-Way

Panel Add-On (KPO)

- Can be applied to the top of same width panels to increase overall height and privacy, allow light transmission or provide a vertical surface for mounted storage
- Can only be stacked to 81” high
- Only one panel add-on can be used above an existing panel if load bearing is required
- Two 15” high panel add-ons can be stacked together
- See compatibility charts to determine element options
- Cannot be used on 30” high panels
- With 3” Lay-In Channel (KPOF) has the capacity to handle 40 category 5 communication cables at a 60% fill rate
- Symmetric with Cable-Way (KPOW) has a 1” deep cable way that can handle up to 10 category 5 communication cables (or 6 category 5 cables at a 60% fill rate)
planning with panel add-ons

panel add-ons

Overhead Cabinet (KSF)  Overhead Upmount (KSU)  Shelf (KSS)  Suspension Shelf (KSSN)

Overhead Cabinets (KSF/KSU), Shelf (KSS) and Suspension Shelf (KSSN) can be applied over the Panel Add-On (KPOF) and (KPOW). Please see the Mounted Storage section for details.

Two 15" high Panel Add-Ons can be stacked together, however only one Panel Add-On can be used above an existing panel when overhead storage is used.

Overheads or up-mounted overheads cannot be mounted on to 30" high panels with add-ons.

panel add-ons available heights

The following outlines the recommended heights of add-ons to achieve standard datum heights.
Panel Add-On, Single Glass (KPOGS) or Double Glass (KPOGD)
- Spans across the top of one or two Leverage panels to provide large spans of uninterrupted glazing
- Available with single or double glazing in standard and specialty glass options
- Available in 15”, 24” & 30” high and 24”-96” wide
- Trims must be specified separately
- Is not load bearing, and cannot be stacked on top of other add-on windows
- Does not provide cable lay-in capabilities
- Does not affect existing cable routing in the panel that it is mounted to
- Cannot be used beside a Leverage door

Panel Add-On to KP_30” high panel frames, Single Glass (KPOGBS) or Double Glass (KPOGD)
- Same as Panel Add-On, Single Glass or Double Glass, but used only on a 30” high panel frame
- Available in 12”, 21” & 36” high and 24”-96” wide
- Additional brackets are required for securing add-on panels to each other in straight line or at a corner condition when mounted on a 30” high panel. Please see, the Panel Connections & Trims section for more details

Finishes
- Frame and metal top trim are available in Foundation and Mica colors
- Glass is available in Clear and Frosted Standard Glass
The following should be considered when planning with Panel Add-Ons – Glass.

Panel Add-Ons – Glass can be used in straight runs, two-way connections, three-way connections, but not at four-way connections.

- Are required at the top of a panel and must be specified as part of the panel, or as an option to the add-on glass, but not both.
- Only one add-on – glass can be stacked onto a panel, to a maximum height of 81”.
- A full-height end trim should be specified when an add-on glass is mounted onto a panel.

When Panel Add-On Screen – Glass are used on a 30” high panel with a return panel, the return panel can be any height from 30” or higher however, the run cannot support overheads.
Panel Add-On Screens provide a frameless alternative to Panel Add-Ons - Glass to provide a lighter aesthetic.

- Panel Add-On Screen – Glass is available with Standard or Thick Top Trim and can be mounted on-module, semi off-module, or span across two panels. Thick Top Trim cannot be mounted off-module.
- Cannot be used on Panels frames (KPU_)

Glass options available:
- No Extension or Notch (Standard)
- Notched
- Extended

Panel Add-On Screen – Glass (KPGA)
- Provides a frameless alternative to a Panel Add-On, Glass
- Available in clear or frosted 6mm glass
- Available with a Standard or Thick Trim (please see the Panel Connections & Trims section for more details)
- Can be used on a single panel, or span across two panels
- Replaces the top trim of the panel
- Available with extended and notched options to allow for a clean fit at intermediate trims and 90° & 180° connections
- Cannot be mounted to panels with Lay-In Channel (frame styles U.)
- Cannot be used on a Panel with a Privacy Screen.
- When installed on a non-high capacity panel frame (frame style W, E, X) cables cannot be routed through the top of the panel
- If the Panel Add-On Screen – Glass (KPGA) is to be installed on a panel manufactured prior to June 28, 2010, and compatibility kit will be required, and is considered an option – Included (1)
- Can be mounted on- or off-module, but if the off-module is used, a top trim must be used to cover the portion of the panel not covered by the screen
- Thick Top Trim does not allow for off-module applications (please see the Panel Connections & Trims section for more details)
- Most variations include Alignment Clip
- For Option B, may be required for alignment, based on application
- Cannot be specified in combination with any wood panel top trims, wood end trims, wood intermediate trims or wood panel corner connectors

Finishes
- Frame and metal top trim are available in Foundation and Mica colors
- Screen is available in Frost, Satin and Clear Standard Glass
Panel Add-On Screen – Glass is available in three different end styles, Standard, Extended and Notched, to accommodate corner conditions and differences in panel heights.

Extended
- The glass extends slightly past the trim so that the glass can meet at 90° and 180° connections
- Can be extended on one or both sides

Standard
- The glass is the same width as the trim

Notched
- Have slightly shorter glass than the trim to allow for intermediate trims in change of height conditions

The Panel Add-On Screen – Glass replaces the top trim on the panel. An additional top trim is required to cover the exposed area when mounted off-module.

- **Cannot** be mounted onto the panel add-on glass, single or double glass.
- **Cannot** span over two panels that are connected off-module to a third panel of the same height.
- **Cannot** be used when a Suspension Shelf (KSSN) is mounted to the panel.
- Extended applications **cannot** be used with 120° planning. Standard style must be used on both ends.

When planning with the Thick Top Trim and monolithic corridor width elements, it is recommended that segmented elements be used on the opposite side of the panels, this allows for ease of installation and reconfiguration.
The Door Panel allows for the insertion of a door within a panel environment.

**Door Panel Basics**

**Finish Options**
- Frame and metal top trim are available in Foundation and Mica colors
- Door is available in Foundation Laminate and Flintwood colors

**Door Dimensions**

<table>
<thead>
<tr>
<th>Door Dimensions (Normal)</th>
<th>Door Clearance (Clear Opening)</th>
</tr>
</thead>
<tbody>
<tr>
<td>81” high x 36” wide</td>
<td>80” high x 32” wide</td>
</tr>
</tbody>
</table>

**Handle Styles**

- Handle Style 2 (Lever handle with lock)
- Handle Style 3 (Lever Handle no lock)
- Handle Style 9 (No handle)

**Finite Panel (KPND)**
- Allows for a door application in a panel environment
- Works with Conventional, Universal, Floor-Flush and panel frame styles
- Does not allow for power pass through or power access
- Must be connected to panels of the same height
- Hinges must be connected to an 81” high connector
- The door swing is identified as left and right according to the location of the hinges. Swing orientation **cannot** be reversed in the field

**Finishes**
- Doors are available in Foundation, and Wood Veneer Laminates and Flintwood stains
- Frame is available in Foundation and Mica colors
- Metal trim are available in Foundation and Mica colors
- Flintwood trim are available in Flintwood stains
- Handles, locks and thresholds are finished in a Brushed Chrome
The following should be considered when planning with doors.

Panel Add-Ons cannot be stacked above the door panel.

Panel-mounted storage units cannot be installed on Panels directly adjacent to the Door Panel.

The door panel cannot be used beside Panel Add-On – Single Glass or Panel Add-On – Double Glass that spans over two panel frames.

The Door Panel cannot be used beside Panel Add-On – Single Glass or Panel Add-On – Double Glass that spans over two panel frames.

The Door Panel cannot be specified at the following locations:

- Corner Connection
- Minimum 24" wide
- Back-to-Back
- Centered

The Door Panel must be located next to a corner connector and the adjacent panel must measure a minimum of 24" wide.

The Door Panel is not compatible with the Panel Wall Adapter (KCW) so therefore, cannot be used next to a wall.

The Door Panel cannot be specified at the following locations:
privacy screen basics

The Privacy Screen is a sliding partition that works with Conventional, Universal and Floor-Flush.

- Must be mounted on adjacent panels of same height
- May be mounted to one panel of equal or greater width or two panels of lesser width
- May be same width or wider than opening to be covered

Finishes
- Screen has a lightweight translucent finish
- Frame is available in Foundation and Mica Colors
- Caps located at the end of the frame will match the Foundation finish color selected for the frame. If Mica frame is selected, caps will be Black

Privacy Screen (KPF)
- A non load-bearing lightweight translucent panel-mounted sliding partition
- Cannot be used with an Elevated Panel
- Direction in which the door will slide can be changed in the field
- Comes complete with caps and mounting hardware
- Cannot be used with Thick Top Trim (KTCT)
The following should be considered when planning with Privacy Screens.

Add-On Modules (KPO) and Panel Add-On Screen – Glass (KPGA) cannot be applied on the top of the panel to which the Privacy Screen is mounted.

Overhead Cabinets cannot be mounted on the same panel as the Privacy Screen.

- When mounting onto a Floor-Flush Panel a Baseboard Element must be specified on the side of the panel that the Privacy Screen is attached to.
- The track attaches to channel at 6” high

**corner opening**

For complete closure the panel run width that meets the Privacy Screen when fully closed must be 6” longer than the parallel run. This will eliminate the gap that would be created by the Privacy Screen sitting out 3” from the panel (see below).

- This diagram illustrates the location of the mounting brackets
- **Cannot** mount to 30” wide panels, mounting brackets interfere with panel connections

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**Actual Screen Size**

- 32 1/2” or 38 1/2” w
- 26 1/2” or 32 1/2” w
- 37” or 45” w
- 3” gap
- no gap

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leverage price & application guide – September 28, 2020
privacy screen applications

The following demonstrates typical applications for the Privacy Screen.

**screen and opening same width**
Privacy Screen is the same width as the opening or wider (Left Slide Shown).

**screen width 6” wider than opening**
Privacy Screen slides to completely cover an opening with 3” on each side (Left Slide Shown).

**corner opening**
Privacy Screen can be mounted in a corner (Left Slide Shown).

**screen mounted over two panels**
Privacy Screen mounted over two screens (except for 30” wide panels, where mounting brackets interfere with panel connectors) (Left Slide Shown).

**42” wide opening**
42” wide Privacy Screen

**24” wide panel**
24” wide Privacy Screen

**36” wide opening with 3” overlap on either side**
42” wide Privacy Screen
42” wide panel