livello application guides

livello height-adjustable bench typicals

The following typicals demonstrate the versatility of Livello Height-Adjustable Bench.

livello height-adjustable bench 01
5' x 18'

1. Standard Range frames provide users an electric sit-stand workstation with a height-adjustment range of 27" - 43".
2. End and Mid Covers are available with or without cable channel provisions.
3. The Power Bar with Data is mounted to the worksurface and provides users with convenient power locations.

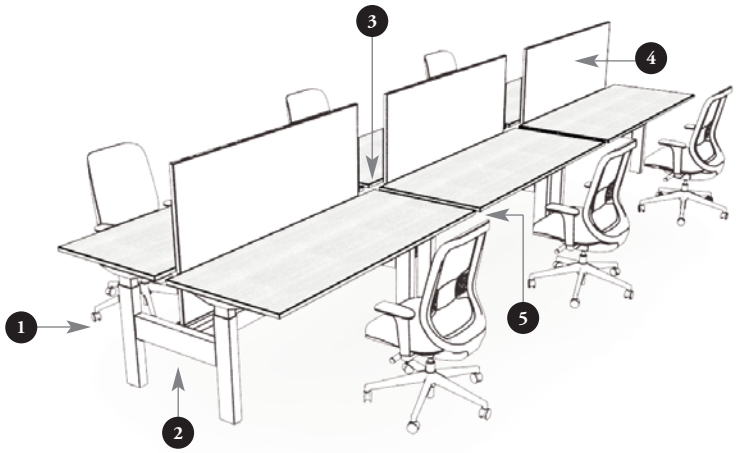
QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
3	HABFLV76072	Livello Frame, Standard Range Electric	5511	16533
2	HABFLF	Frame Link	109	218
2	HABCCEML602	Livello End Cover, Metal, without Cable Channel Provision	40	80
2	HABCCMML6022	Livello Mid Cover, Metal, without Power Pole & Cable Channel Provision	56	112
6	HABWRL307223	Livello Rectangular Worksurface, Square Corner Profile, 3" Center Gap	441	2646
6	YEPC	Power Bar with Data	261	1566
			TOTAL	21155 LIST

Finishes: Foundation Paint and Source Laminate Worksurfaces.

*Seating: Variable Work Chairs are not included in price.

livello height-adjustable bench typicals (continued)

livello height-adjustable bench 02
5' x 18'



1. Standard Range frames provide users an electric sit-stand workstation with a height-adjustment range of 27" - 43".
2. End and Mid covers are available in a variety of colors to allow for a unique color palette.
3. The Power Rod is mounted below the worksurface to provide users with accessible wire management and power locations.
4. Fixed Center Screens mount to the Cable Channel and require the 3" gap between worksurfaces and are available with a 51" datum height to allow for privacy between users.
5. Modular Electrics are available with Standard and High Capacity configurations that provide electrical outlets to each frame.

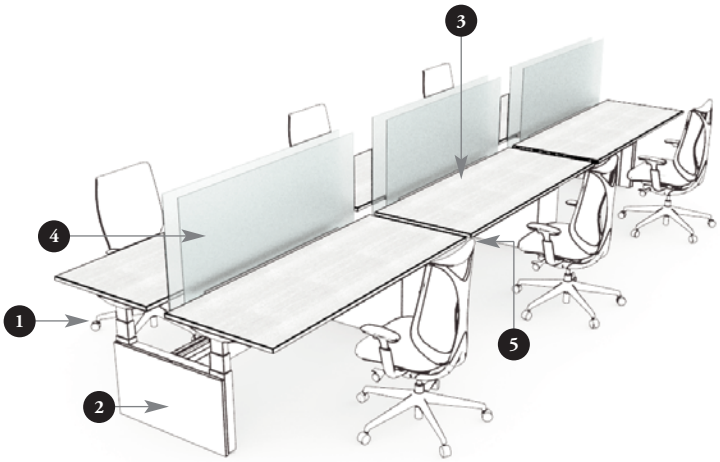
QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
3	HABFLV76072	Livello Frame, Standard Range Electric	5511	16533
2	HABFLF	Frame Link	109	218
3	HABFCC172	Cable Channel, Standard	828	2484
2	HABCCEML601	Livello End Cover, Metal, with Cable Channel Provision	65	130
2	HABCCMML6021	Livello Mid Cover, Metal, without Power Pole Provision, with Cable Channel Provision	81	162
6	HABWRL307223	Livello Rectangular Worksurface, Square Corner Profile, 3" Gap	441	2646
3	HABCFF5172I	Fixed Center Screen, Fabric	845	2535
3	HABEPMS	Power Module, Standard Capacity	210	630
6	HABEROS	Receptacle Outlet, Standard 15 Amp	26	156
2	HABEPH8TO84	Power Harness, 8-Wire Isolated Ground	158	316
1	HABEPH8TO48	Power Harness, 8-Wire Isolated Ground	138	138
1	HABEBF8TO7	Base Feed, 8-Wire Isolated Ground Condition	338	338
6	YEPD6	Power Rod, Under-Worksurface Mount with Cable Tray	261	1566
1	HABEBC	Base Feed Cover	229	229
			TOTAL	28081 LIST

Finishes: Foundation Paint and Source Laminate Worksurfaces.

*Seating: Projek chairs not included in price.

livello height-adjustable bench typicals (continued)

livello height-adjustable sit-stand bench 03
5' x 18'



1. Extended Range frames provide users an electric sit-stand workstation with a height-adjustment range of 22" - 48".
2. End and Mid Gables are available with or without power provisions.
3. The Center Electrical Grommet provides access to power through a flip up door.
4. Desk Edge Screens mount flush to the worksurface and move with the worksurface to allow users full privacy in seated and standing working heights.
5. Modular Electrics are available with Standard and High Capacity configurations that provide electrical outlets to each frame.

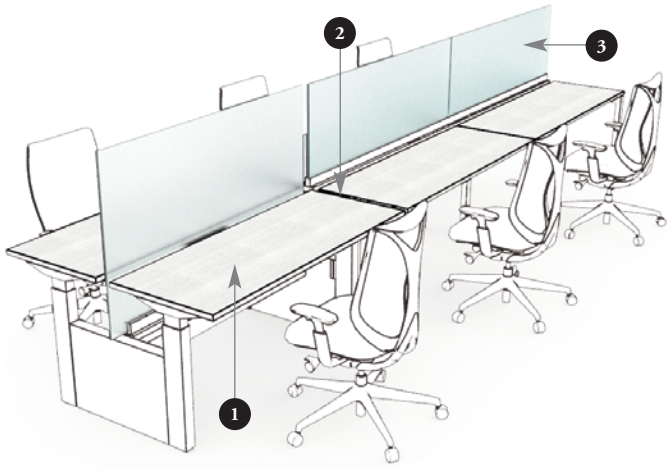
QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
3	HABFLV96072	Livello Frame, Extended Range Electric	6636	19908
2	HABFLF	Frame Link	109	218
3	HABFCC172	Cable Channel, Standard	828	2484
2	HABCGESL601	Livello End Gable, Solid, with Cable Channel Provision	320	640
2	HABCGMSL6022	Livello Mid Gable, Solid, without Power Pole Provision & Base Feed Provision, with Cable Channel Provision	659	1318
6	HABWRL307225	Livello Rectangular Worksurface, Square Corner Profile, 5" Center Gap	979	5874
6	HABCDG2272	Desk Edge Screen, Glass	662	3972
3	HABEPMH	Power Module, High Capacity	461	1383
12	HABER0S	Receptacle Outlet , Standard 15 Amp	26	312
2	HABEPH8T084	Power Harness, 8-Wire Isolated Ground	158	316
1	HABEPH8T048	Power Harness, 8-Wire Isolated Ground	138	138
1	HABEBF8T072	Base Feed, 8-Wire Isolated Ground End Condition	338	338
6	YEPD6	Power Rod, Under-Worksurface Mount with Cable Tray	261	1566
			TOTAL	38467 LIST

Finishes: Foundation Paint and Source Laminate Worksurfaces.

*Seating: Sabrina chairs not included in price.

livello height-adjustable bench typicals (continued)

interpret with livello height-adjustable bench 01
4' x 15'



1. The Livello Height-Adjustable Bench can be integrated with Interpret to provide height-adjustable worksurfaces.
2. The Systems Link connects the two products to allow power to continue between products and ensure accurate spacing for safety.
3. The datum height of Interpret & Livello Height-Adjustable Bench match for a seamless aesthetic.

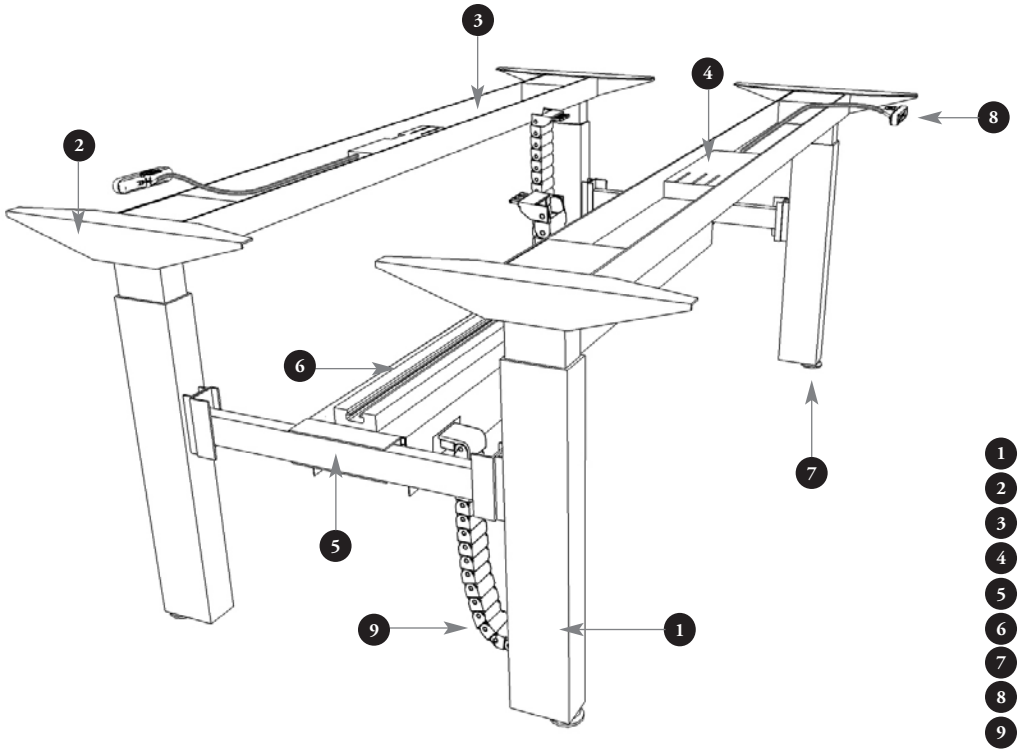
QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
1	HABFLV74860	Livello Frame, Standard Range Electric	5297	5297
1	HABFLSI	System Link, Interpret	165	165
1	HABFCC160	Cable Channel, Standard	769	769
2	HABCCEML601	Livello End Cover, Metal, with Cable Provision	65	130
2	HABWRL246023	Livello Rectangular Worksurface, Square Corner Profile, 3" Center Gap	322	644
1	HABCFG5160F	Fixed Center Screen, Glass, Full	923	923
1	HABEPMH	Power Module, High Capacity	461	461
4	HABER0S	Receptacle Outlet, Standard 15 Amp	26	104
1	HABEPH8T048	Power Harness, 8 Wire Isolated Ground	138	138
2	YEPD6	Power Rod, Under-Worksurface Mount with Cable Tray	261	522
1	WWSDBASSR2848	Double Sided Beginning Frame, with Accessory Beam, Straight End Leg, Straight Intermediate Leg	1123	1123
1	WWSDFAS284860	Double Sided Finish Frame, with Accessory Beam, Straight Leg	885	885
4	WWWRWD2460	Wire Gap Worksurface, for Double Sided Frame	322	1288
2	WWCCX2260	Casual Glass Screen, 10mm	535	1070
2	WWEPTDY60	One Power Tray, for Double Sided Bench, with two duplex cut-outs and one Data Box	116	232
4	WWEDA60	Data Tray, 60"	70	280
8	WWER0S	Receptacle Outlet, Standard 15 Amp	26	208
2	WWEPH8T48	Power Harness, 8 Wire Isolated Ground	138	276
1	WWEBF8K144SMD	Base Feed, 8 Wire Dual Isolated, for Frame Mods 60" or Less, for Mounting on Double Sided Frame	485	485
1	WWEBC	Base Feed Cover	179	179
			TOTAL	15179 LIST

Finishes: Foundation Paint and Source Laminate Worksurfaces.

*Seating: Sabrina Chairs not included in price.

understanding livello height-adjustable bench frames

Livello Height-Adjustable Bench can be specified with one frame providing a two person workstation or in runs with multiple connected frames, in Standard and Extended Range electric mechanisms.

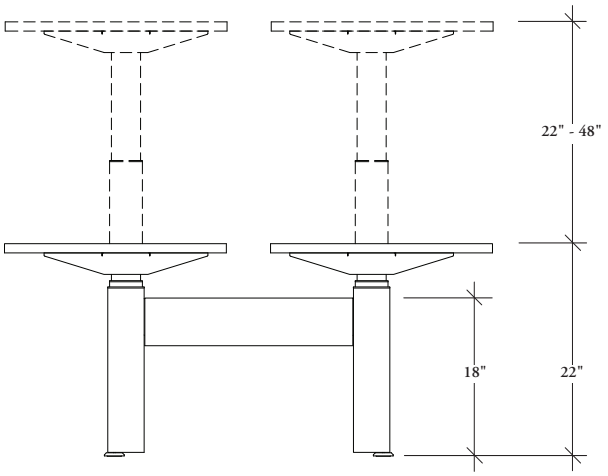


1. Livello Leg
2. Strut
3. Center Channel
4. Control Box
5. Leg Brace
6. Cable Channel (Optional)
7. Leveler
8. Switch
9. e-Chain

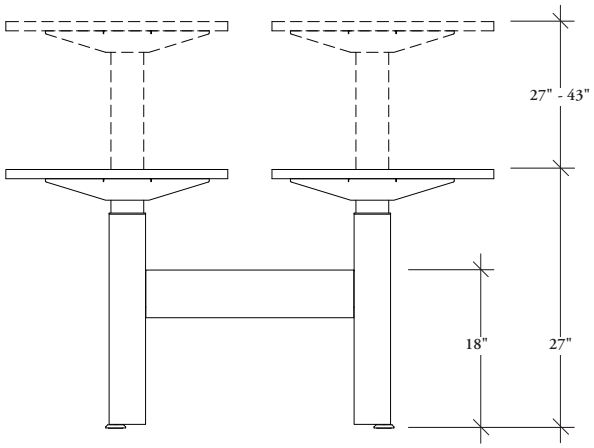
height adjustment ranges

Two height ranges are available; Standard and Extended.

Each section of a bench can only have one height adjustment range, however it can vary from section to section as each frame is independent although linked.



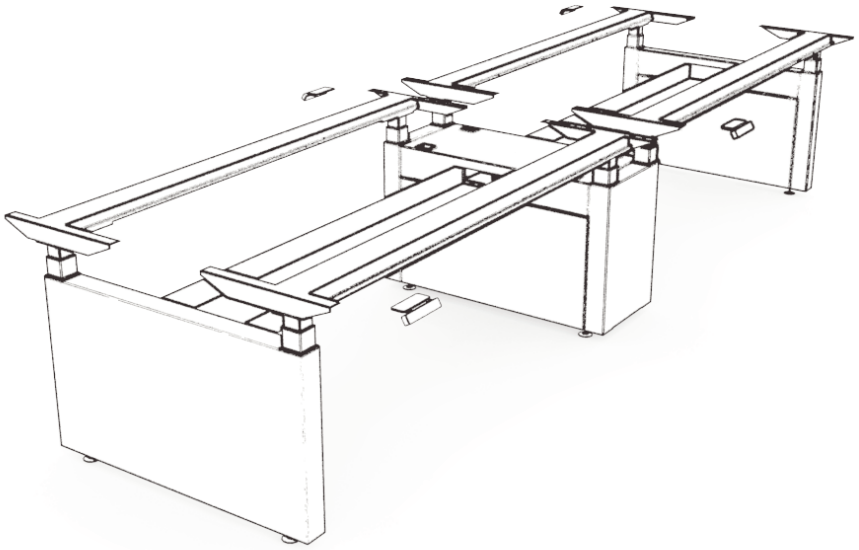
Extended Range



Standard Range

frame basics

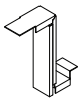
Livello Height-Adjustable Bench begins with a Livello Frame which can be linked to additional frames. Each frame section accommodates two users. The Livello frame matches leg profile of Livello Freestanding, work and meeting tables.



Livello Frame, Standard Range, Livello End & Mid Covers and optional Cable Channel shown

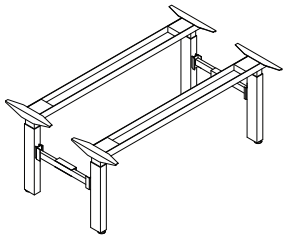
Frame Link (HABFLF)

- Used to connect two frames together
- Contains two brackets, 1 package is required for each bench connection
- The link is concealed by Mid Covers and Mid Gables
- Finished in Ebony



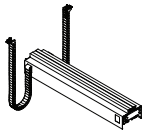
Systems Link (HABFLS)

- Used to join Interpret benches to Livello Height-Adjustable Bench
- Complete with integrated wire management channel to allow for the continuation of modular electrics between products
- Available in Foundation and Mica



Livello Frame (HABFLV)

- Used with two rectangular worksurfaces to create a bench
- Available in depths of 48", 60" and 72" and widths of 48"-96" in 6" increments
- Available in Standard Range (27"-43") or Extended Range (22"-48") electric mechanisms
- 3" leveling capability
- Display switch has three programable settings and a cool blue display screen with digital capability
- Available in Foundation and Mica finishes



Cable Channel (HABFCC)

- Mounts to the leg braces of the frame below the worksurface to conceal & manage all power modules, harnesses, wiring and data & communication cables
- Available in widths of 48"-96" in 6" increments to match frame widths
- Includes Interpret Accessory Beam used to attach all of the Fixed Center Screen.
- Available Single or Double. Single includes two-chain vertical wire management for each side. Dual includes four-chain vertical wire management, two for each side
- Available in Foundation and Mica

planning with frames

The following should be considered when planning with Frames.

frame depths

Livello, 48" deep and 60" deep Frames use the same frame structure so are identical in depth, the 72" Frame has a deeper frame structure. The overall bench depths are achieved through the depths of the worksurface.

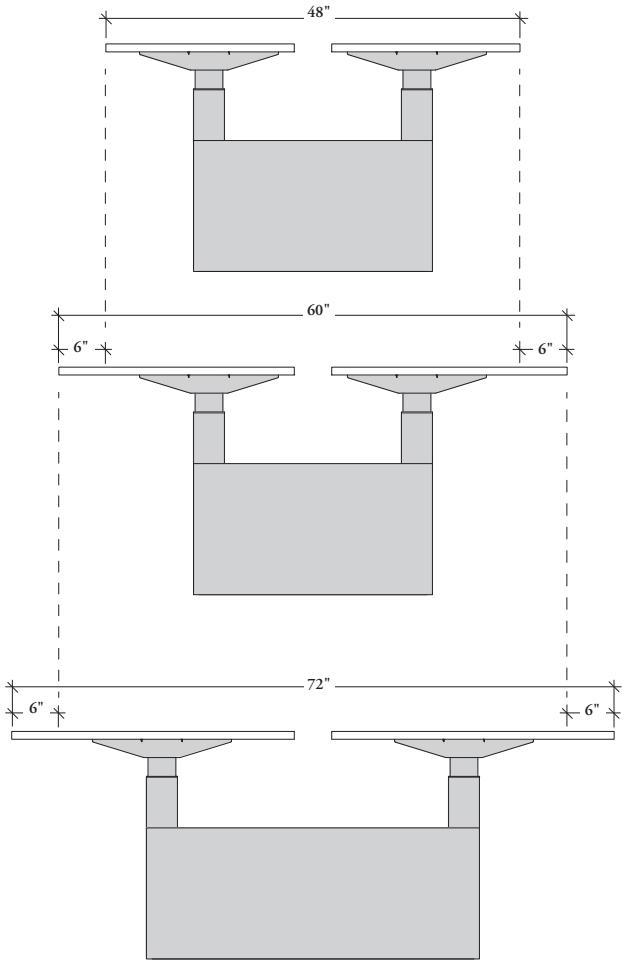
48" Frame depth

60" Frame depth

(Same frame as 48" depth frame, but with deeper worksurfaces)

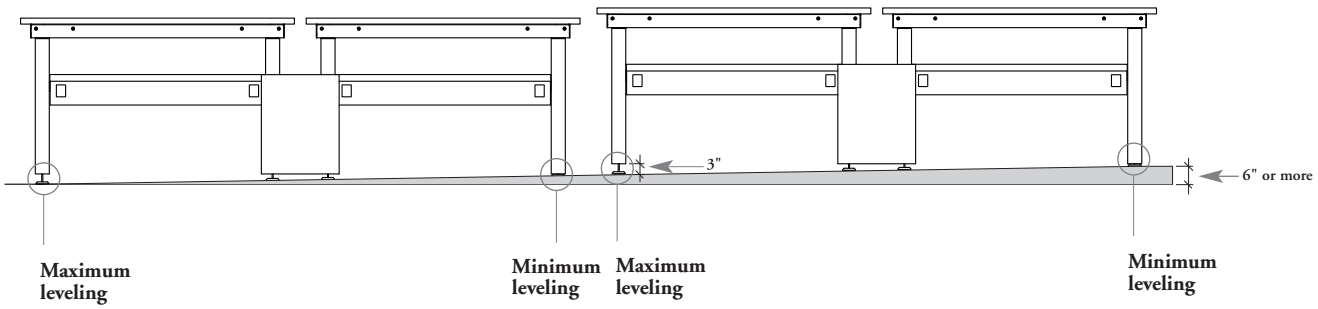
72" Frame depth

(Wider frame than 48" and 60" width frames)



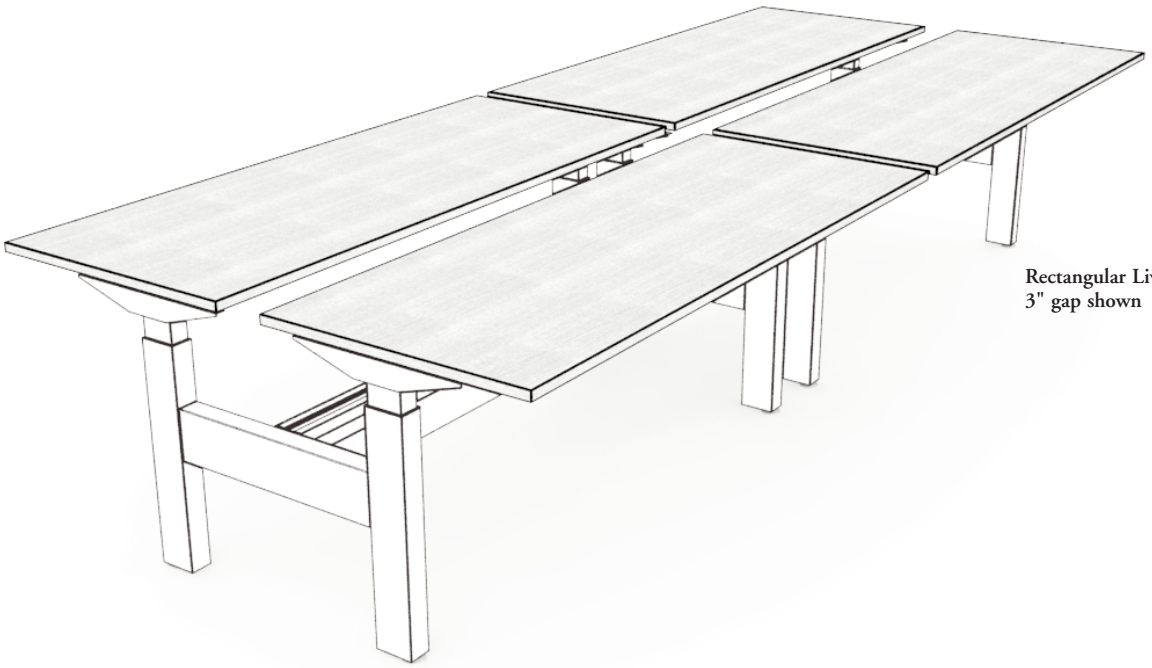
leveling

- Livello Height-Adjustable Bench Frames allow for 3" of leveling. When more than 3" of leveling is required, a break in the bench run is necessary
- A site check prior to order is required to determine floor levels

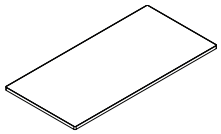


worksurface basics

Livello Rectangular Worksurfaces are available with a 3" or 5" center gap to accommodate casual screens. Various levels of power accessibility are available through the choice of worksurface.



Rectangular Livello Worksurface with 3" gap shown

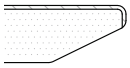
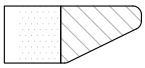
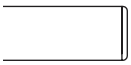
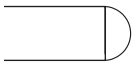
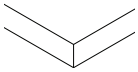
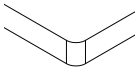


Livello Rectangular Worksurface (HABWRL)

- Worksurfaces are sized to match Livello worksurface widths
- Available in depths of 24", 30" and 36" and widths of 48"-96" in 6" increments to match the frame widths
- All depths are nominal; actual depths are either 1 1/2" or 2 1/2" (for 3" or 5" overall gap) less to allow for desk mounted or fixed center screens see screen section for screen details
- All widths are nominal; actual widths are 2" less to allow a 1" gap on each side to prevent pinch points
- Center Electrical Grommet options and additional passthrough Grommet locations available
- Available with Curved or Radius corner profile

worksurface basics (continued)

edge profiles

	Source Laminate	Foundation Laminate Surface	Seamless Color Surface	Flintwood Surface	Natural Veneer Surface
Flat (8) All Edges 		✓			
Flat (9) All Edges 				✓	✓
Flat (G) All Edges 			✓		
Full Knife (H) 		✓		✓	✓
Full Knife (X) All Edges 			✓		
Straight Trim (6) User Edge 	✓	✓			
Bullnose Trim (2) User Edge 		✓			
Seamless Eased Edge (E) User Edge 			✓		
Straight User Edge 	✓	✓	✓	✓	✓
Radius User Edge 	✓	✓	✓	✓	✓

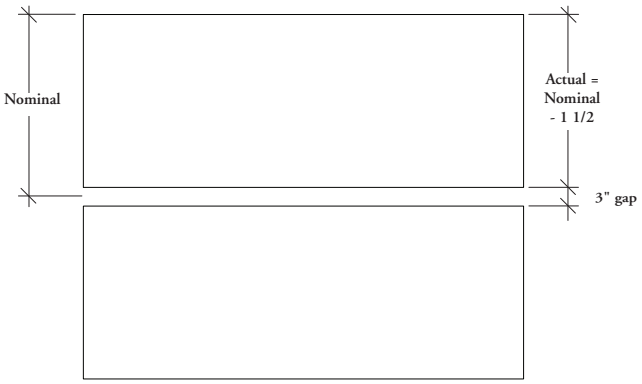
planning with worksurfaces

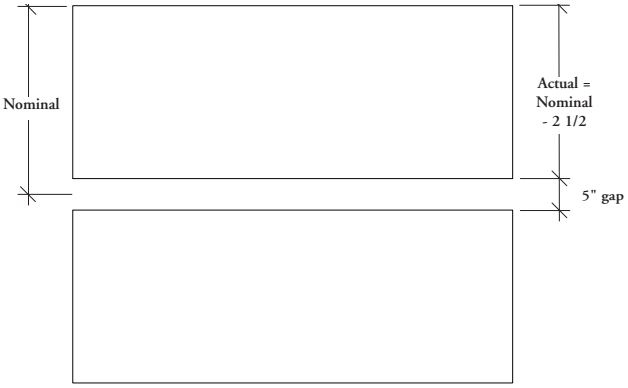
The following should be considered when planning with Livello Rectangular Worksurfaces.

depths and widths

Worksurface depths and widths are nominal.

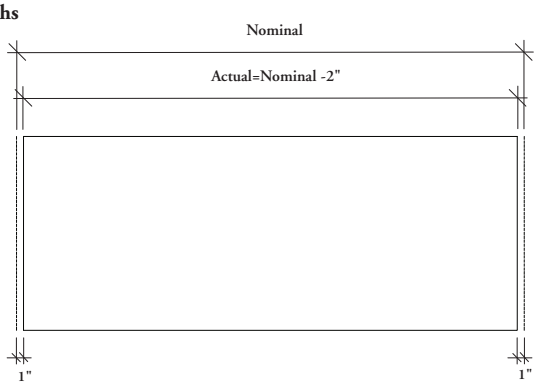
Depths





Actual depths are 1 1/2" or 2 1/2" less to provide a 3" or 5" gap between face to face users for space division.

Widths

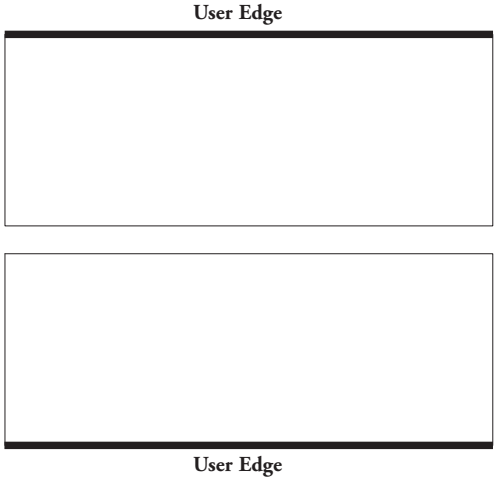


The actual width is 2" less than the nominal width to allow for a 1" gap on each side of the surface for height-adjustable safety precautions. This results in a 2" gap between lateral worksurfaces.

edge profiles

Full Knife, Eased and Bullnose edge details are only on the user side. Non-user edges are always Flat Trim.

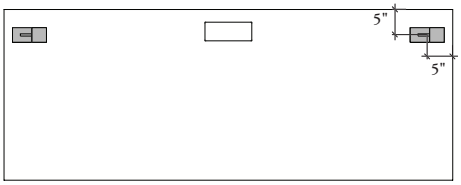
• Bullnose user edge detail will always have a Straight profile on the ends. All other corner profiles are as selected



planning with worksurfaces (continued)

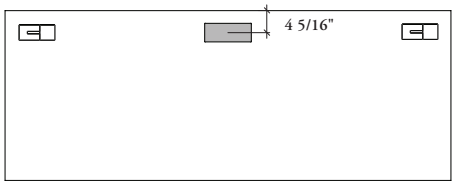
grommets

- Two cut-out options are available:
  - Central Electrical Grommet
  - Pass through grommet
- Pass Trough Grommets are available left, right and/or center, the Central Electrical Grommet is only available in the center



Pass Through

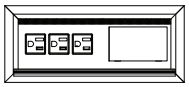
- Grommets are 5" on centre from both edges
- When a Center Electrical Grommet is specified a pass through grommet **cannot** go in the center location



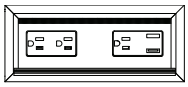
Central Electrical Grommet

- Central Electrical Grommet centered 4 5/16" on center from the back edge
- Central Electrical Grommet must be plugged into modular power. It **cannot** be connected to a power Rod/Power Bar

Central Electrical Grommet options



3x Receptacles and Data

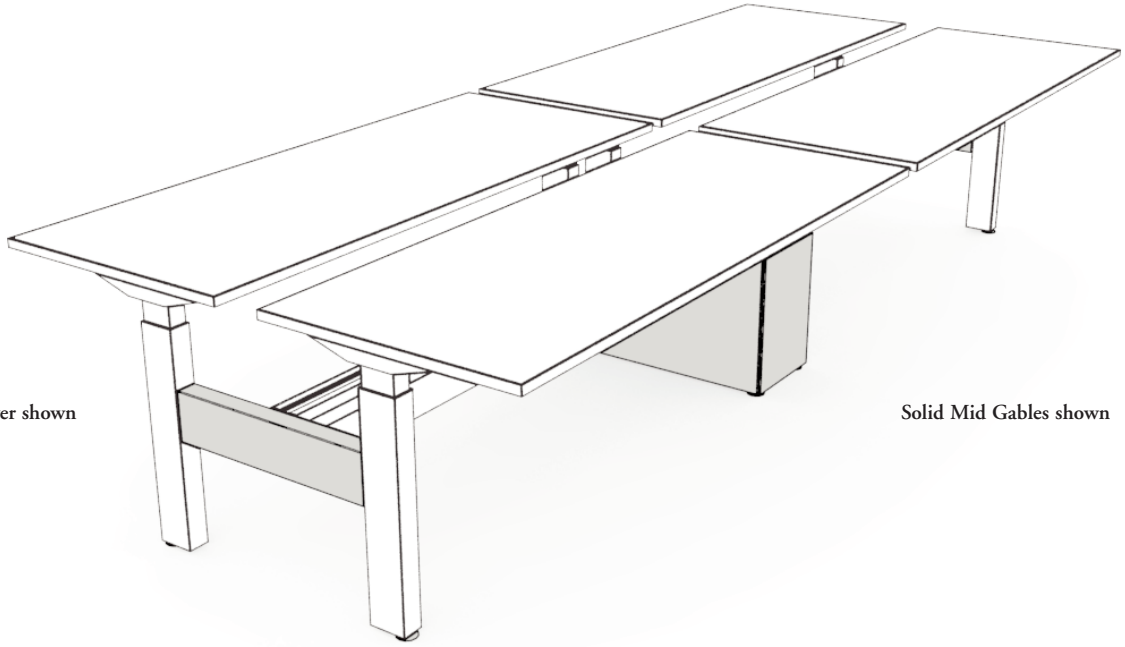


2x USB, and 3x Receptacles

Pass through Grommet

casual mid and end covers & mid and end gables basics

Mid and End Covers & Mid and End Gables are available to conceal the exposed leg brace of the Frame.



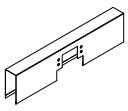
Metal end cover shown

Solid Mid Gables shown

- **Covers** conceal the end and mid leg braces
- **Gables** conceal the end and mid leg braces and extend to the floor
- Available in depths of 48", 60" and 72" to match frame sizes

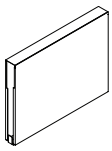
metal

Metal Covers and Gables are available in Foundation, Mica and Accent Finishes.



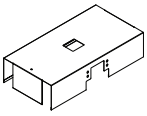
Livello End Cover – Metal (HABCCEML)

- Available with or without Cable Channel Provision



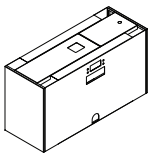
Livello End Gable – Metal (HABCGEML)

- Available with or without Cable Channel Provision



Livello Mid Cover – Metal (HABCCMML)

- Available with or without Cable Channel and Power Pole Provision



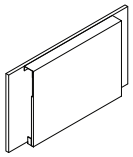
Livello Mid Gable – Metal (HABCGMML)

- Available with or without Cable Channel
- Power Pole and Base Feed Provisions

solid

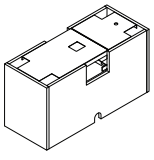
Solid Outer Gables and Covers are available in Source Laminate, Flintwood and Natural Veneer Finishes.

Solid Inner Gables and Covers are available in Foundation and Mica Finishes.



Livello End Gable – Solid (HABCGESL)

- Available with or without Cable Channel Provision
- Includes a solid outer gable and a metal inner gable



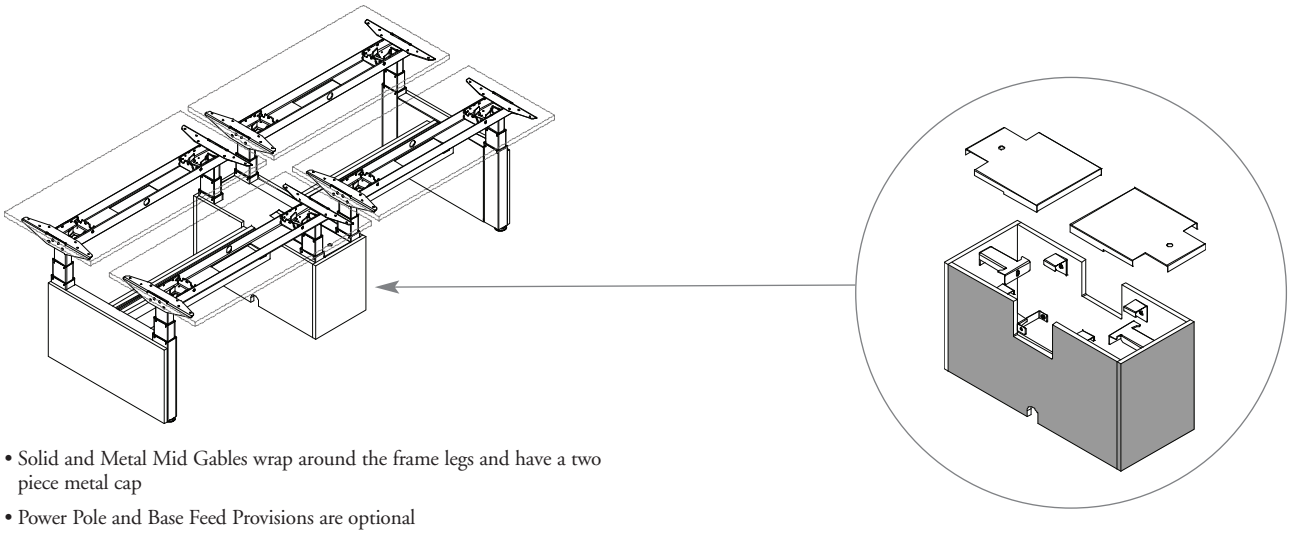
Livello Mid Gable – Solid (HABCGMSL)

- Available with or without Cable Channel, Power Pole and Base Feed Provisions
- Includes solid outer gables and a metal inner top gable

planning with casual mid & end gables

The following should be considered when planning with Mid & End Gables.

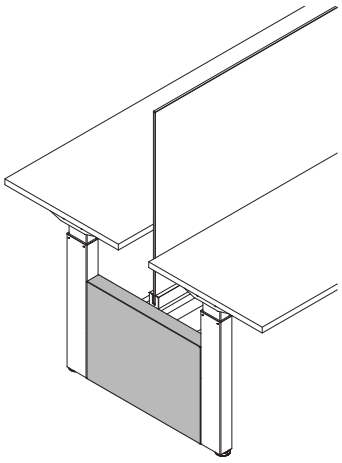
mid gables



- Solid and Metal Mid Gables wrap around the frame legs and have a two piece metal cap
- Power Pole and Base Feed Provisions are optional
- Must have the Cable Provision if the Cable Channel is being specified

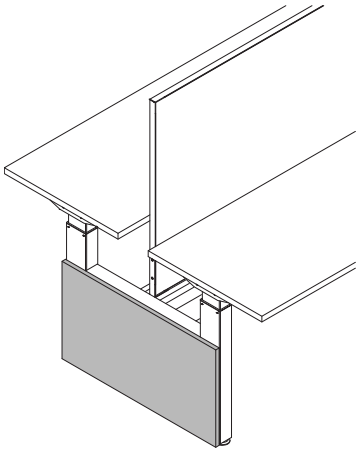
end gables

metal



- The Metal End Gable is an infill that aligns with the legs of the frame
- It must include the Cable Provision if a Cable Channel is being specified

solid



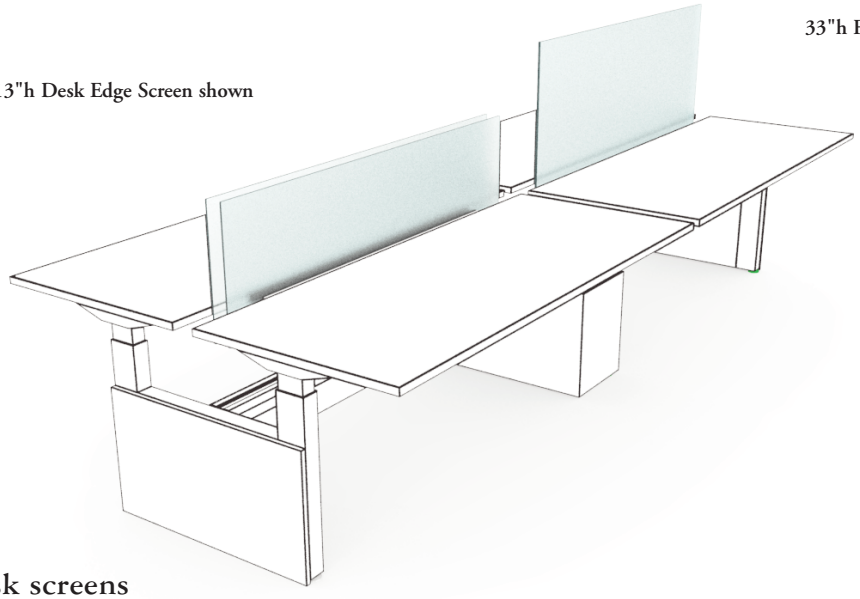
- The Solid End Gable is outward facing only and does **not** wrap around the legs of the frame. The leg brace is covered with a metal infill to the floor
- It must have the Cable Provision if the Cable Channel is being specified

casual desk edge & fixed centre screen basics

Two casual Screens options are available for Livello Height-Adjustable Bench; Desk Edge Screens and Fixed Center Screens, each provide privacy between users.

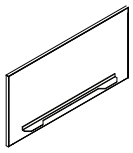
13"h Desk Edge Screen shown

33"h Fixed Center Screen shown -51" datum

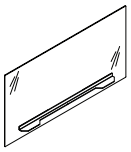


desk screens

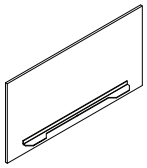
- Mount flush to the rear worksurface edge to create privacy and physical separation at any height
- A 5" gap between worksurfaces must be specified
- Available in fabric, glass and solid finishes
- Available in heights of 13" and 22" to achieve 42" and 51"h datum heights when mounted to the worksurface at 29"h
- Available in widths from 48" to 84" in 6" increments for fabric and glass screens and 48" to 96" in 6" increments for solid screens
- Trim bracket available in Foundation, Mica and Accent Finishes



Desk Edge Screen – Fabric (HABCDF)
- Available in all Teknion Panel fabrics



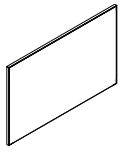
Desk Edge Screen – Glass (HABCDG)
- Available in Clear or Frosted Glass
- Available in 6mm or 10mm thicknesses



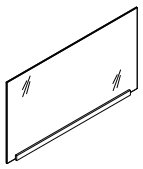
Desk Edge Screen – Solid (HABCDS)
- Available in Source Laminate, Seamless Color, Flintwood, or Natural Veneer

fixed center screens

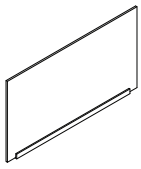
- Mount to the accessory beam on a Cable Channel to provide privacy and space division
- A 3" gap between worksurfaces must be specified
- Available 33" high to achieve a 51" height datum when mounted to the accessory Beam
- Available in fabric glass and solid finishes



Fixed Center Screen – Fabric (HABCFF)
- Available in all Teknion Panel Fabrics
- Screen alway has a 12" Inset, 6" each side



Fixed Center Screen – Glass (HABCFG)
- Available in Full or Inset
- Inset Screen is 12" Inset, 6" each side, Full Screen is Inset 4", 2" each side
- Available in Clear and Frosted Glass
- Bracket finishes available in Foundation, Mica and Accent colors
- Fixed Center Screens Glass are always 10 mm thick

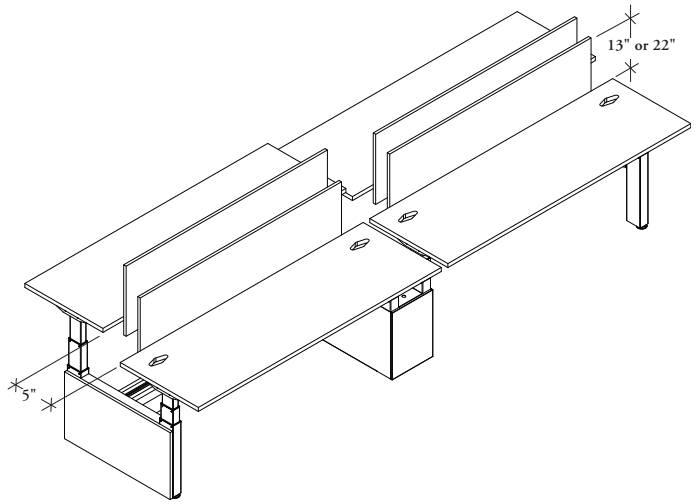


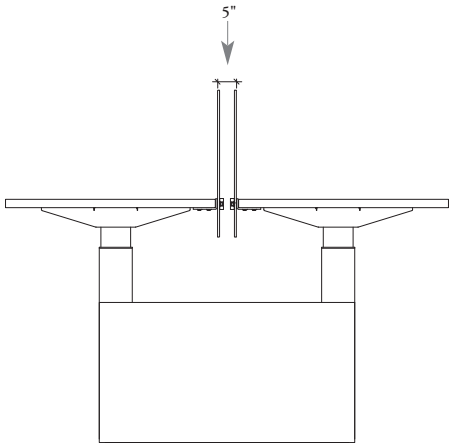
Fixed Center Screen – Solid (HABCFS)
- Available are Full or Inset
- Inset Screen is 12" Inset, 6" each side, Full Screen is Inset 4", 2" each side
- Available in Source Laminate, Seamless Color, Flintwood and Natural Veneer
- Trim bracket vailable in Foundation, Mica and Accent finishes

planning with casual desk edge screens

The following should be considered when planning with Casual Desk Edge Screens.

There are two screen heights available; 13" or 22" above worksurface (and 3.5" below).The 13" high screen is best suited for the Standard Range Frame and the 22" high Screen is best suited for the Extended Range Frame as they provide the most user privacy when worksurfaces are at different heights.

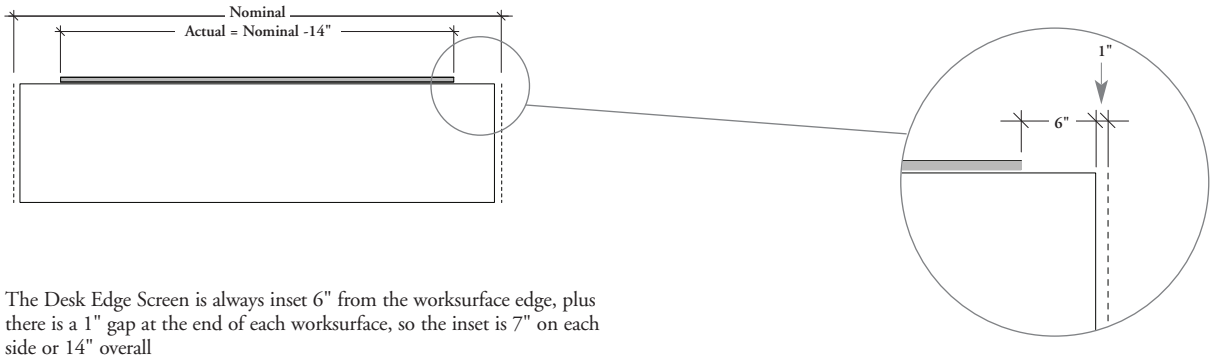




- The Desk Edge Screen is mounted flush to the rear edge of the worksurface
- Pass through grommets will be required for wires to be routed below the worksurface

Desk Edge Screens must be used with a 5" worksurface gap, they **cannot** be used with a 3" worksurface gap.

When specifying the Desk Edge Screen it is important to consider the nominal vs. actual sizing.



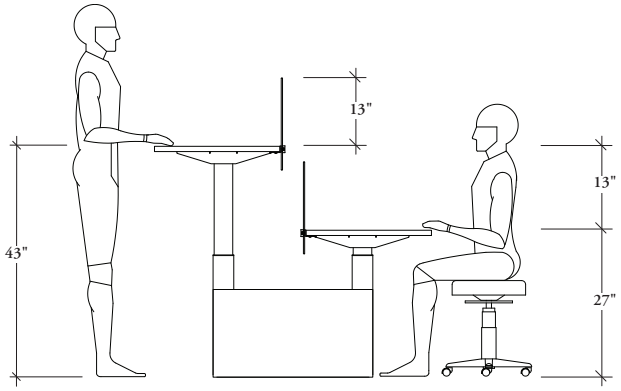
- The Desk Edge Screen is always inset 6" from the worksurface edge, plus there is a 1" gap at the end of each worksurface, so the inset is 7" on each side or 14" overall

planning with casual desk edge screens (continued)

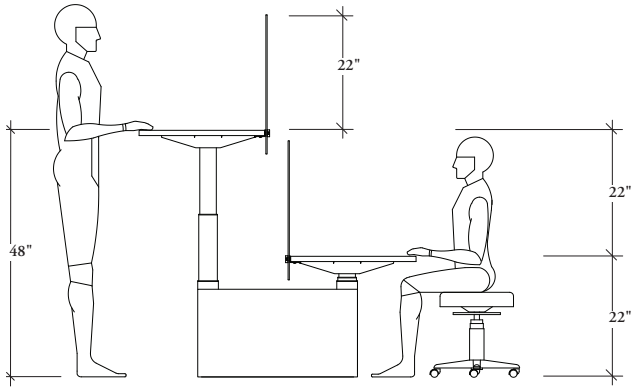
privacy

When frames are extended at different heights, Desk Edge Screens will have a screen overlap to allow for privacy between the forward facing users.

standard



extended



planning with actual vs. nominal casual screens

The following chart outlines the Nominal vs. Actual width of Desk Edge Screens and Fixed Center Screens.

Desk Edge Screens

Nominal Widths	Actual Widths
48	34
54	40
60	46
66	52
72	58
78	64
84	70
90	76
96	82

Fixed Center Screens - Inset

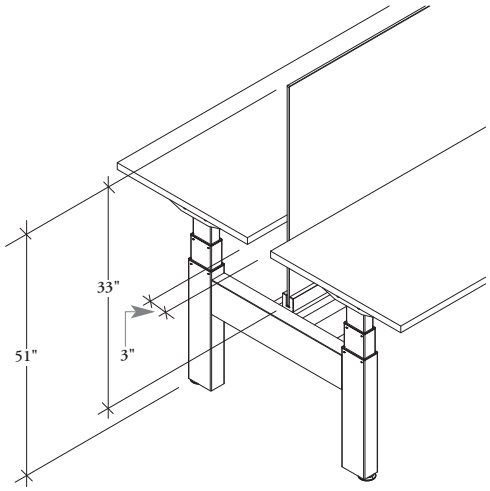
Nominal Widths	Actual Widths
48	36
54	42
60	48
66	54
72	60
78	66
84	72
90 Solid only	78
96 Solid only	84

Fixed Inset Screens - Full

Nominal Widths	Actual Widths
48	44
54	50
60	56
66	62
72	68
78	74
84	80
90 Solid only	86
96 Solid only	92

planning with casual fixed center screens

The following should be considered when planning with Casual Fixed Center Screens.

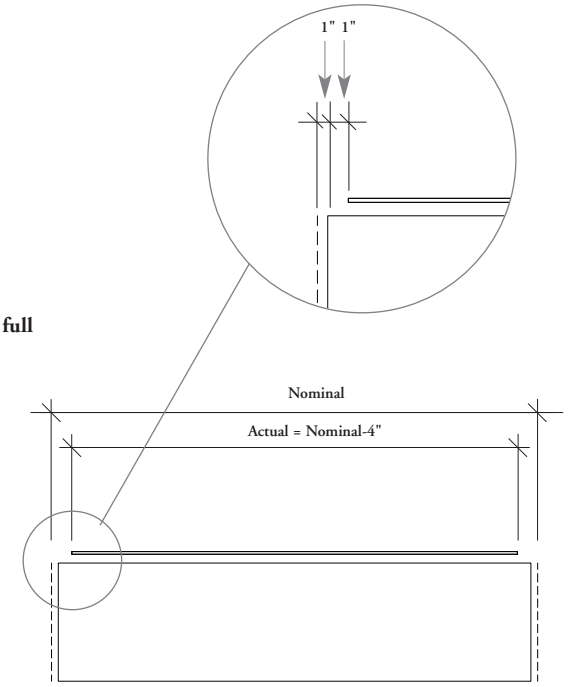


The Fixed Center Screen is 33"h and has an overall 51"h datum height.
Must be used with worksurfaces with a 3" gap.

actual vs. nominal dimension

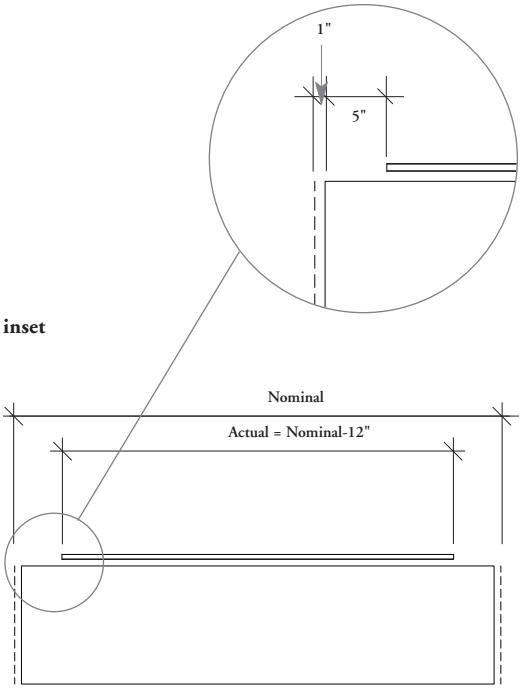
When specifying fixed centre screens, it is important to consider the nominal vs. actual sizing.

full



The Full Fixed Center Screen is 1" less than the worksurface width on each side. Worksurfaces also have a 1" gap on each side so the overall actual width is 4" less than the nominal width

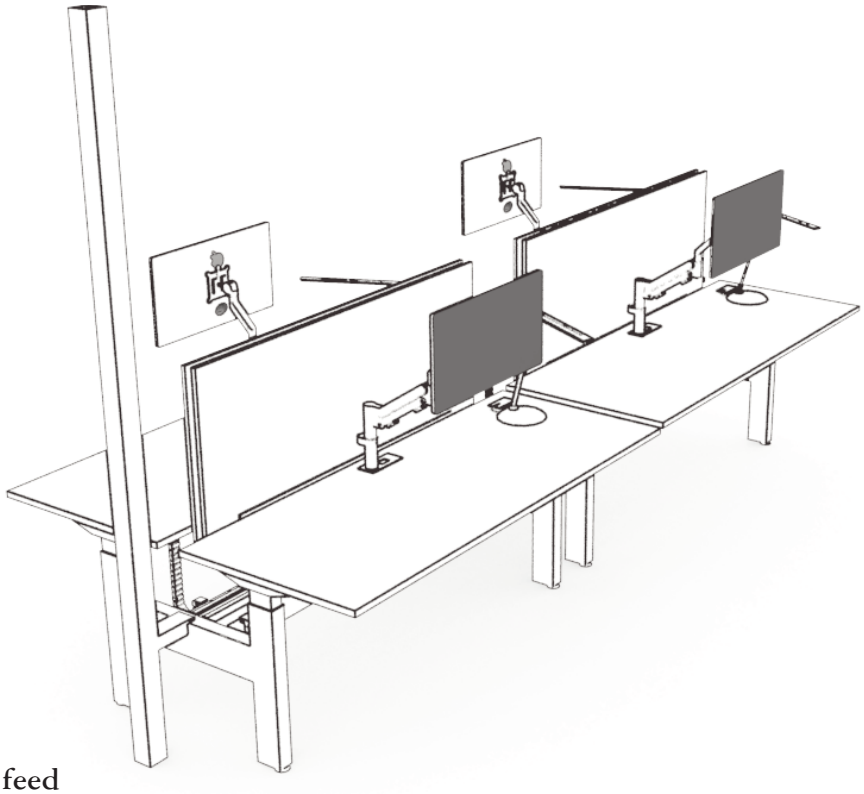
inset



The inset Fixed Centre Screen is 5" less than the worksurface width on each side. Worksurfaces also have a 1" gap on each side so the overall actual width is 12" less than the nominal width.

power pole and base feed basics

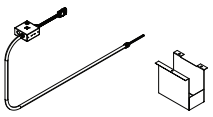
Power and Data enter Livello Height-Adjustable Bench from the ceiling through a Power Pole and Ceiling Feed or from the floor with a Base Feed.



base feed

Base Feed (HABEBF)

- Provides routing for power from the floor to a Power Module with Cable Channel
- Available for End Condition End Cover and Mid Condition Mid Gable
- Wire systems include 8-Wire Isolated Ground (8T) and 8-Wire Dual Isolated (8K)



Split Base Feed (HABEBFS)

- Provides routings for power from the floor to a Power Module with a Cable Channel and is wired into the building power source in two locations for New York City wiring restrictions
- Wire systems available include 8-Wire Isolated Ground (8T) and 8-Wire Dual Isolated (8K)
- Lengths available are 18" and 72"
- Available for End Condition and Mid Condition

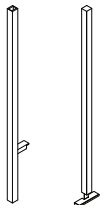
Chicago Base Feed (HABEBFCH)

- Required for city of Chicago electrical code requirements
- Lengths available in 72" and 144"
- Styles include are End Condition and Mid Condition

Base Feed Cover (HABEBC)

- Used to route power and data cables into a workstation from the floor
- Available in Foundation and Mica colors

power pole



Power Pole (HABEPP)

- Routes a ceiling feed and data cables from the ceiling to the workstation and can be used in end and mid conditions
- Available in heights of 96" and 120"
- Styles include are End Condition, and Mid Condition
- Finishes are Foundation, Mica and Accent colors

Ceiling Feed (HABEBF)

- Routes power from the ceiling to the workstations
- Wire systems include 8-Wire Isolated Ground (8T) and 8-Wire Dual Isolated (8K)
- Lengths available are 120" and 144"

Chicago Ceiling Feed (HABECFCH)

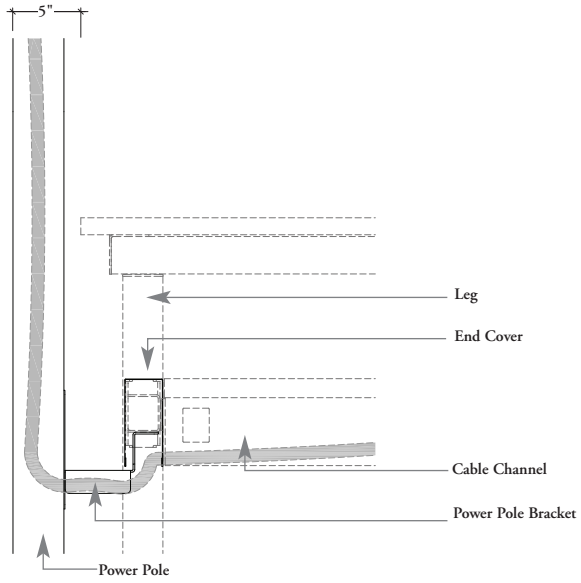
- Required for city of Chicago electrical code requirements
- Lengths available are 120" and 144"

planning with power poles and ceiling feeds

The following should be considered when planning with Power Poles and Ceiling Feeds.

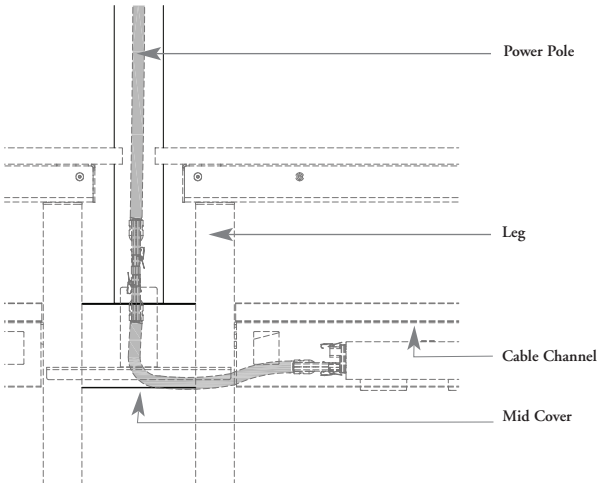
The Power Pole routes a Ceiling Feed and data cables from the ceiling to a workstation.

end condition

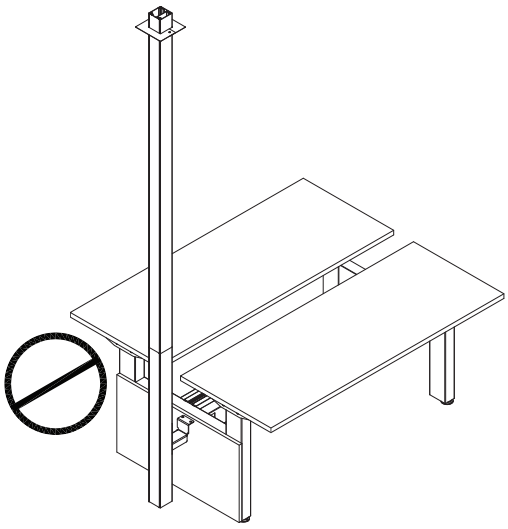


Power Poles attach to leg braces to allow power to be routed from the ceiling. The End Condition Power Pole will protrude 5" past the worksurface.

mid condition



Power Poles attach to the Frame Link to allow power to be routed from the ceiling. When a power pole is used in a mid condition the Mid Cover must have the Power Pole provision. Worksurface must be specified with 5" gap on all sides of the Power Pole.



A power pole **cannot** be used in the end condition with a metal or solid end gable. When specifying the End Condition Power Pole it can only be used with the Livello End Cover-Metal.

planning with base feeds

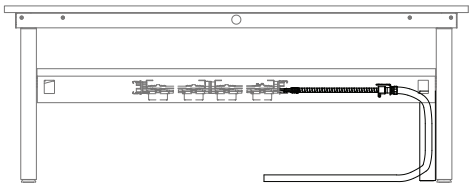
The following should be considered when planning with Base Feeds.

base feed with end gable

The Base Feed is used to route power from the floor to a Power Module.

Note: It is recommended that one base feed be used for no more than eight stations (users). Please consult with an electrician if special power requirements are needed.

end

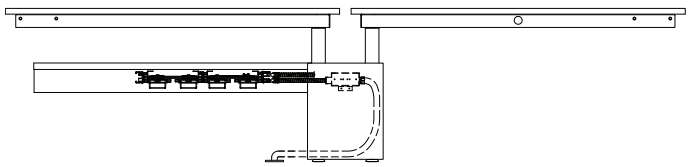


The Base Feed End Condition mounts directly into the Cable Channel in a predetermined location.

base feed with mid gable

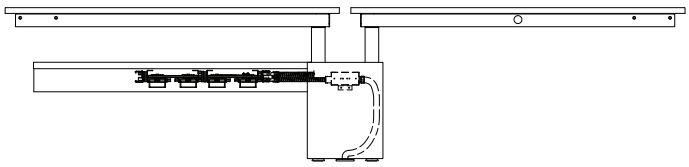
The Base Feed Mid Condition is completely concealed in a Mid Gable. Floor monuments located outside or inside the Mid Gable are supported.

mid gable with base feed provision



When the floor monuments is located outside of the Mid Gable, a Base Feed Provision will allow the Base Feed to enter the Mid Gable and mount to the Frame Link.

mid gable without base feed provision

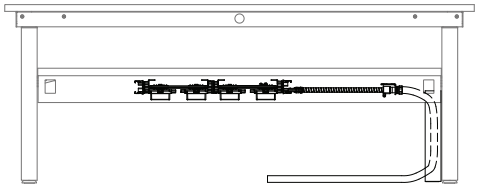


When the modular power terminal is located inside of the Mid Gable, the Base Feed is concealed within the Mid Gable and mounts to the Frame Link.

planning with base feeds (continued)

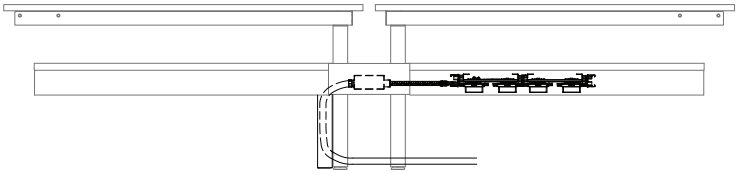
base feed covers

end cover - metal



When the Base Feed Cover-End Condition is specified, it includes a floor to Cable Channel cover and a cover plate finished to match the Cable Channel.

mid cover - metal

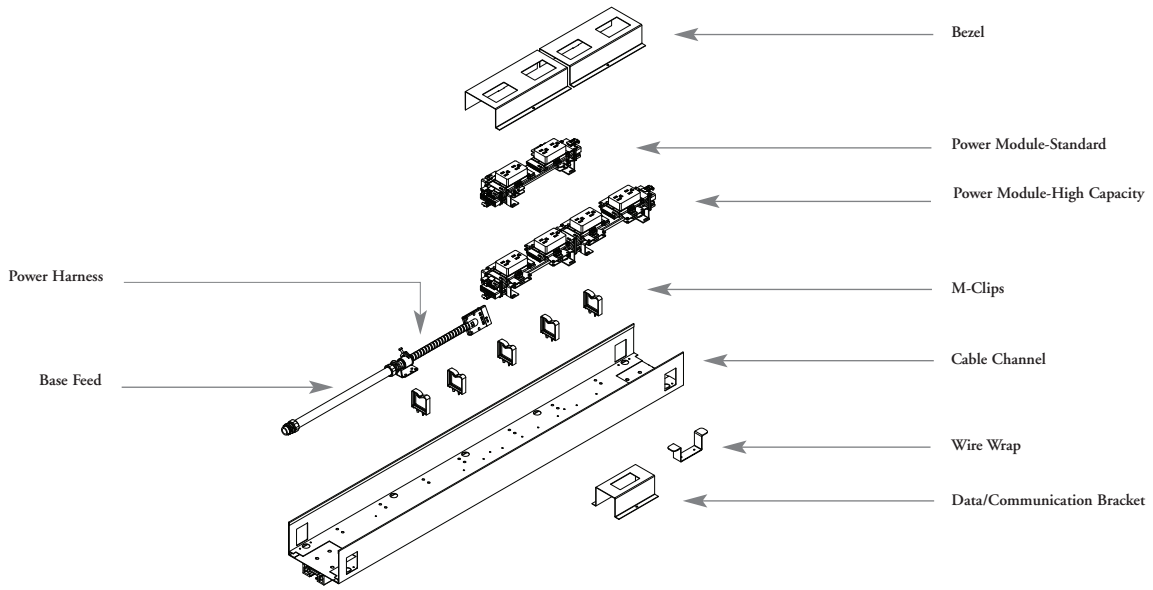


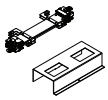
When Mid Condition is specified it is accommodated by reversing the mounting bracket and facing the opening towards the Cable Channel Provision in the Livello Mid Cover-Metal.

wire management basics

Livello Height-Adjustable Bench provides a module electrics option for power and data distribution.

The following outlines the basic components of modular electrics.



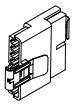


Power Module (HABEPM)

- Mounts in the Cable Channel and accepts outlets for hardware electrics
- Standard and High Capacity applications available
- Includes module bezel
- Wire systems available include 8-Wire Isolated Ground (8T) and 8-Wire Dual Isolated (8K)

Receptacle Outlet (HABERO)

- Mounts onto the Power Module to provide access to power
- Standard and High Capacity Applications available
- Outlet configurations consist of Circuit 1, Circuit 2, Circuit 3 (use 8T only), Circuit 5 and Circuit 6 (use with 8K only)
- Ebony finish only

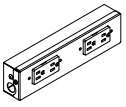


I-Connector (HABEIC)

- Used to join two harnesses when a single harness is not long enough

Power Harness (HABEPH)

- Routes powers from one power module to another
- Wire systems available include 8-Wire Isolated Ground (8T) and 8-Wire Dual Isolated (8K)
- Lengths available are 48", 60", 72", 84" and 96"



Chicago Power Module (HABEPMCH)

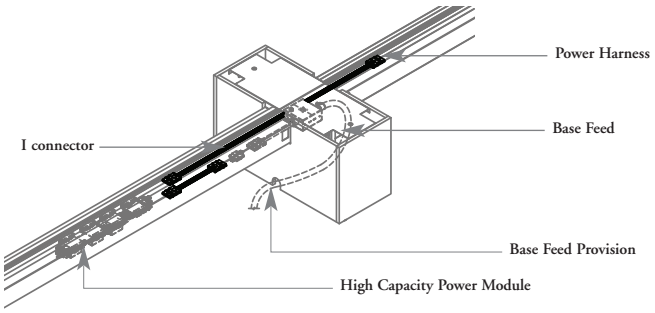
- Required for city of Chicago electrical code requirements
- Standard and High Capacity Applications available
- Standard 15 Amp and T-Slot 20 Amp available

planning with wire management and electrics

mid condition power entry

When the Base Feed is mounted in the mid condition an additional Power Harness is required to connect the Base Feed to a power module in the Cable Channel. End Condition Base Feed does **not** require an additional Power Harness.

power harness



When planning with Power Harnesses the following formula is designed to help determine the length required for the application;

Worksurface A and Worksurface B (side by side)

A/2 + B/2 = X

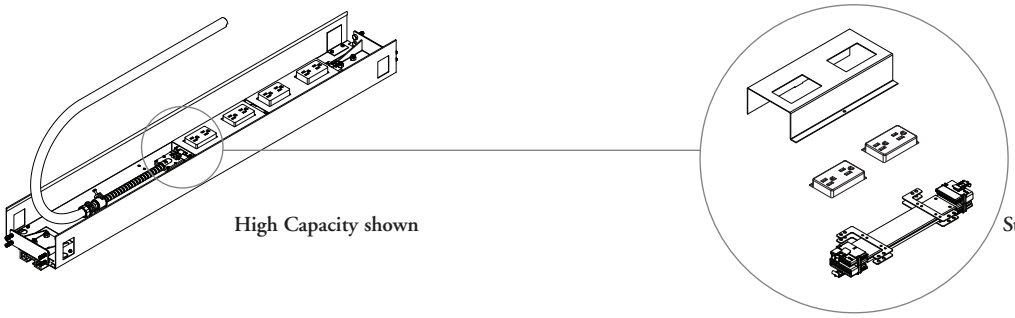
If X is less the 72" pick a 72" long Power Harness

If X is between 72" and 84" pick 84" long

When specifying Power Harnesses it is better to pick the next size up and have some slack.

power module

Power Modules face downward, Standard Capacity accepts two receptacle outlets and High Capacity accepts four receptacle outlets. High Capacity is a separate component; when the Power Module is specified it includes a Bezel finished in Mica Platinum.

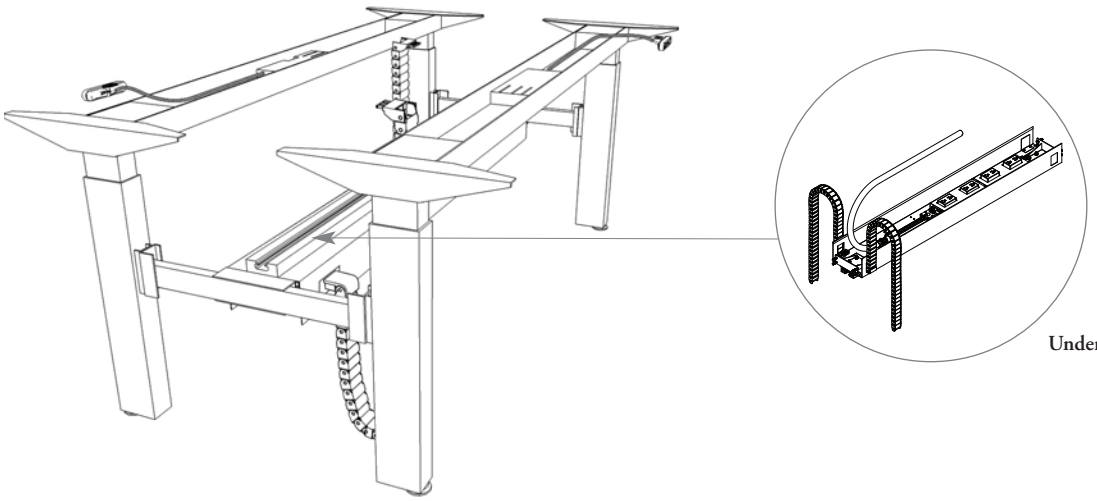


High Capacity shown

Standard Capacity Detail shown

cable channel

Cable Channels have predetermined locations for Power Module and Base Feed. When specified it includes multiple M-Clips, based on channel length, 2 wire wrapping brackets and a Data Cover Plate for data and communication ports. The Cable Channel comes with the built in Interpret Accessory Beam which is used for mounting the Fixed Center Screen. The cable channel also includes the e-chain vertical wire manager. This is specified as a single (one e-Chain per surface, quantity two per frame) or dual (two e-chains per surface, quantity four per frame).



Underside of Cable Channel shown

integrating complements

Components from the Complements *Teknion's Ergonomics & Accessories* Program can be used with the Livello Height-Adjustable Bench.

fixed/in-place worker

Workstation characteristics must support a designated desk within a central or satellite office building.

Zone 1 - Worksurface

- Monitor power data passes through Mast grommet mount to the Power Rod
- Voice connections passe through a worksurface grommet

Zone 2 - Under Worksurface

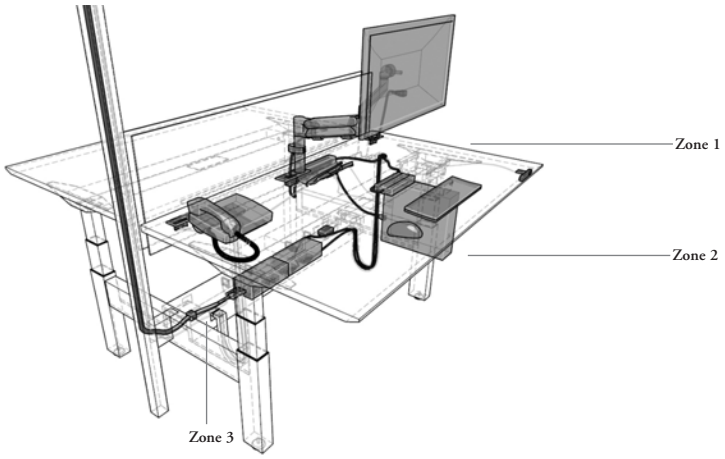
- Power Rod accepts plugs from the CPU, monitor and control box from the table

Zone 3 - Cable Channel

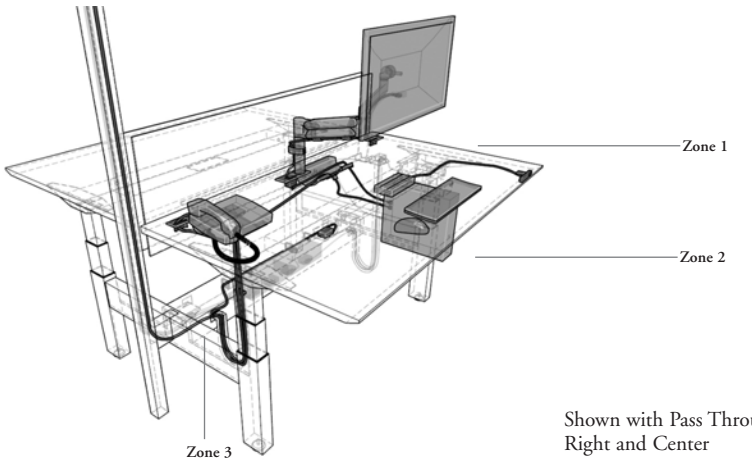
- Data & monitor cables are connected to the CPU
- Power Rod cable is routed through the right e-Chain and plugged into the modular power located in the Cable Channel
- Data cable is routed through the left e-Chain and terminates in the facilities hardwired Data/Communication Bracket

Power enters the station run via a Ceiling Feed routed through a Power Pole-End Condition. Power & Data routing shown in a split configuration, each using a separate e-Chain.

power

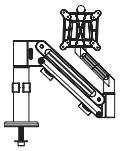


data and communication



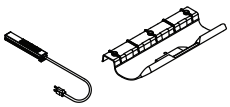
Shown with Pass Through Grommet Left, Right and Center

complements add-ons



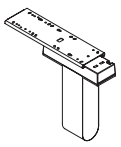
MAST Dynamic Arm Light (YMSTX)

- Fully adjustable Single or Dual Dynamic Arm(s), specified mounting style, quick release VESA plate, monitor mounting hardware, wire management clip



Power Rod (YEPD)

- 1 Power Rod, mounting hardware, 10' Black power cord with 90° plug and cable tray



Technology Support Holder (YKTS)

- Strap type CPU Holder with slide and swivel feature.

integrating complements (continued)

Components from the Complements *Teknion's Ergonomics & Accessories* Program can be used with the Livello Height-Adjustable Bench.

mobile/external

Workstation characteristics include a temporary place to work and must include easily understood and accessible power/data connections for mobile work tools.

Zone 1 - Worksurface

• Laptop power/data and Conflux Task Light plug into the Center Electrical Grommet

• Mobile device charges via USB in the laptop or Conflux base

Zone 2 - Under Worksurface

• Table switch connects to the control box

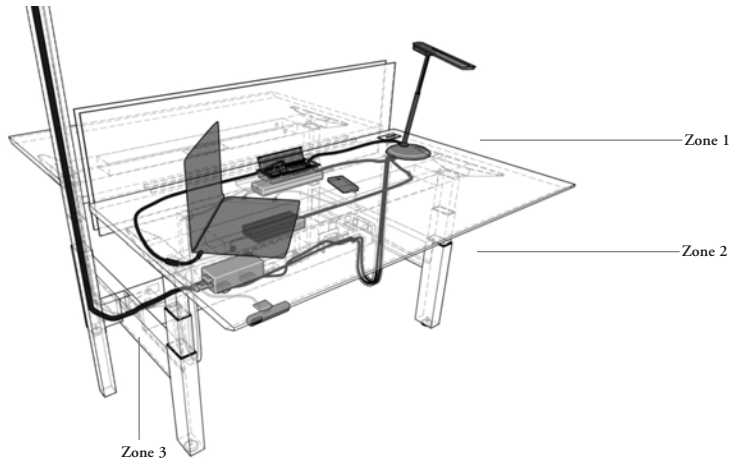
Zone 3 - Cable Channel

• Center Electrical Grommet & control box plugs are routed through the right e-chain and plugged into the modular power located in the cable channel

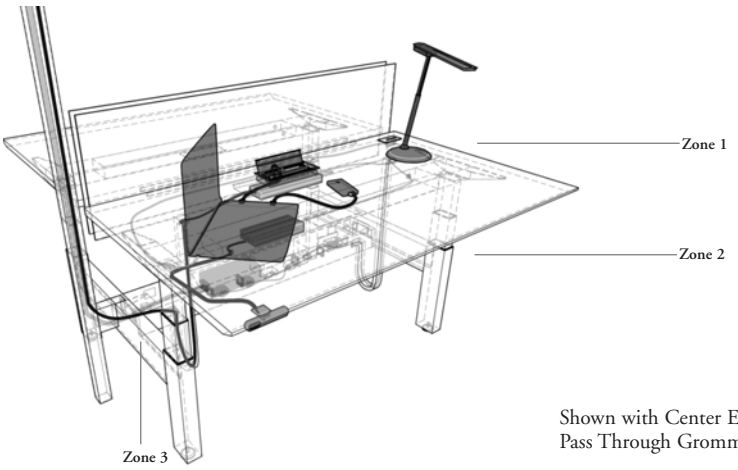
• Data cable is routed through the left e-Chain and terminates in the facilities hardwired Data/Communication Bracket

Power enters the station run via a Ceiling Feed routed through a left e-Chain and routes through the Cable Channel & Power Pole to its origin.

power



data and communication



Shown with Center Electrical Grommet and Pass Through Grommet Right.

complements add-ons

Conflux Adjustable Task Light, Freestanding Base (YLCT 1)

• Passive Infrared (PIR) occupancy sensor.

• USB charger port is standard on all freestanding bases, 5V 1 Amp maximum output.

• Continuous dimmer is standard: dims to as low as 10% of maximum.

• International Bundle includes U.K., Europe and Australasia adapters (when specified).

integrating complements (continued)

Components from the Complements *Teknion's Ergonomics & Accessories* Program can be used with the Height-Adjustable Bench.

mobile/external

Workstation characteristics includes an assigned or free desk with mobile technology to be used throughout an office building or corporate campus.

Zone 1 - Worksurface

- Laptop power and Conflux Task Light power route through the worksurface grommet to the Power Rod mounted below the worksurface
- Mobile device charges via USB in laptop or Conflux base

Zone 2 - Under Worksurface

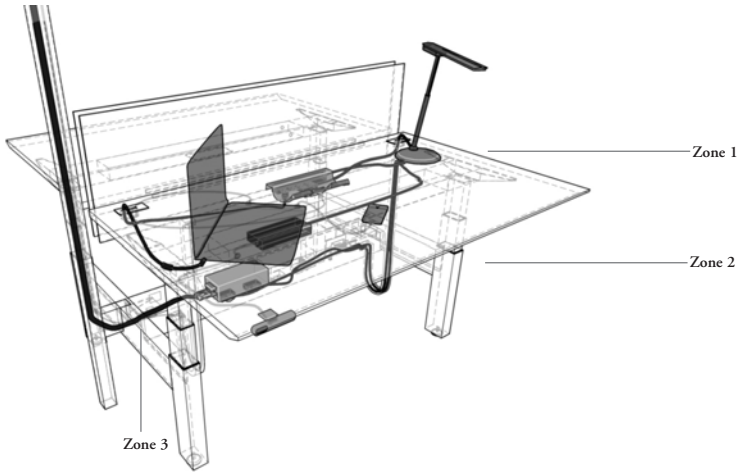
- Power Rod accepts plugs from the laptop, Conflux Task Light and control box from the table. The table switch connects to the control box. Data cables plug into a facilities hardwired Data/Communications port mounted in the Power Rod cable tray

Zone 3 - Cable Channel

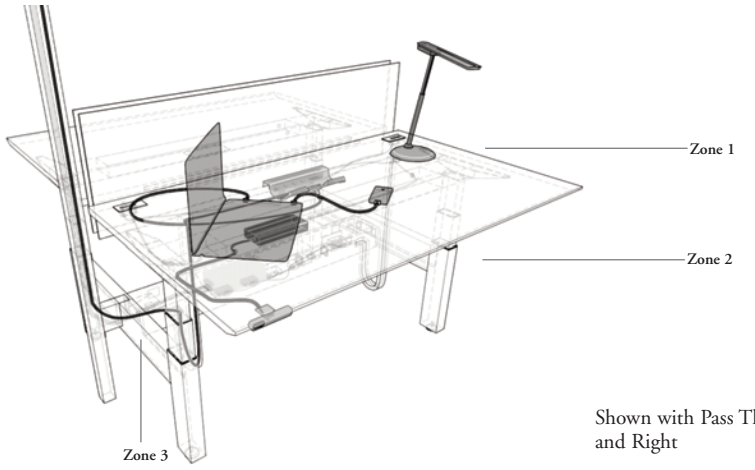
- Data & monitor cables are connected to the CPU
- Power Rod cable is routed through the right e-Chain and plugged into the modular power located in the Cable Channel
- Data cable is routed through the left e-Chain and terminates in the facilities hardwired Data/Communication Bracket

Power enters the station run via a Ceiling Feed routed through a Power Pole-End Condition. Power & Data routing shown in a split configuration, each using a separate e-Chain.

power



data and communication

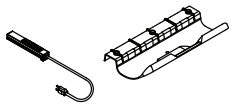


Shown with Pass Through Grommet Left and Right

complements add-ons

Conflux Adjustable Task Light, Freestanding Base (YLCT 1)

- Passive Infrared (PIR) occupancy sensor
- USB charger port is standard on all freestanding bases, 5V 1 Amp maximum output
- Continuous dimmer is standard: dims to as low as 10% of maximum
- International Bundle includes U.K., Europe and Australasia adapters (when specified)
- Power Supply cord length of 9'



Power Rod (YEPD)

- 1 Power Rod, mounting hardware, 10' Black power cord with 90° plug and cable tray

hispace application guides

typicals

The following typicals demonstrate the versatility of hiSpace Height-Adjustable Bench.

hiSpace Height-Adjustable Bench 01

Variable Chair Shown

QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
3	HHBFCC272	hiSpace Universal Frame, Three Sections, Extended Range Electric (25"-50") 60"d x 48"w	15397	15397
6	HHBWRL30723	hiSpace Rectangular Worksurface, 30"d x 72"w, 3" Gap	441	2646
			TOTAL	18043 LIST

Finishes: Source Laminate Worksurfaces.

Variable Seating not included in price.

typicals

hiSpace height-adjustable bench 02

Projek Stool Shown

QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
1	HHBFYS39072	hiSpace Universal Frame, Three Sections, Extended Range Electric (25"-50"), 60"d x 72"w	15397	15397
3	HHBFCC172	hiSpace Cable Tray Cover, with Screen Provision, 72"w	270	810
6	HHBWRL30723	hiSpace Rectangular Worksurface, 30"d x 72"w, 3" Gap	441	2646
3	HHBCCS72	hiSpace Center Casual Screen – Solid, 72"w	493	1479
1	HHBEBF8TMID072	hiSpace Base Feed, 8 Wire Isolated Ground, Mid, Whip Length 72"	285	285
1	HHBEPH8T072	hiSpace Power Harness, 8 Wire Isolated Ground, 72"l	207	207
2	HHBEPB8T	hiSpace Power Box, 8 Wire Isolated Ground	328	656
6	YEPD6	Power Rod, Under-Worksurface Mount w/ Cable Tray	270	1620
			TOTAL	23100 LIST

Finishes: Foundation Paint and Source Laminate Worksurfaces.

*Seating: Projek chairs not included in price.

hiSpace Height-Adjustable Bench 03

Projek Stool Shown

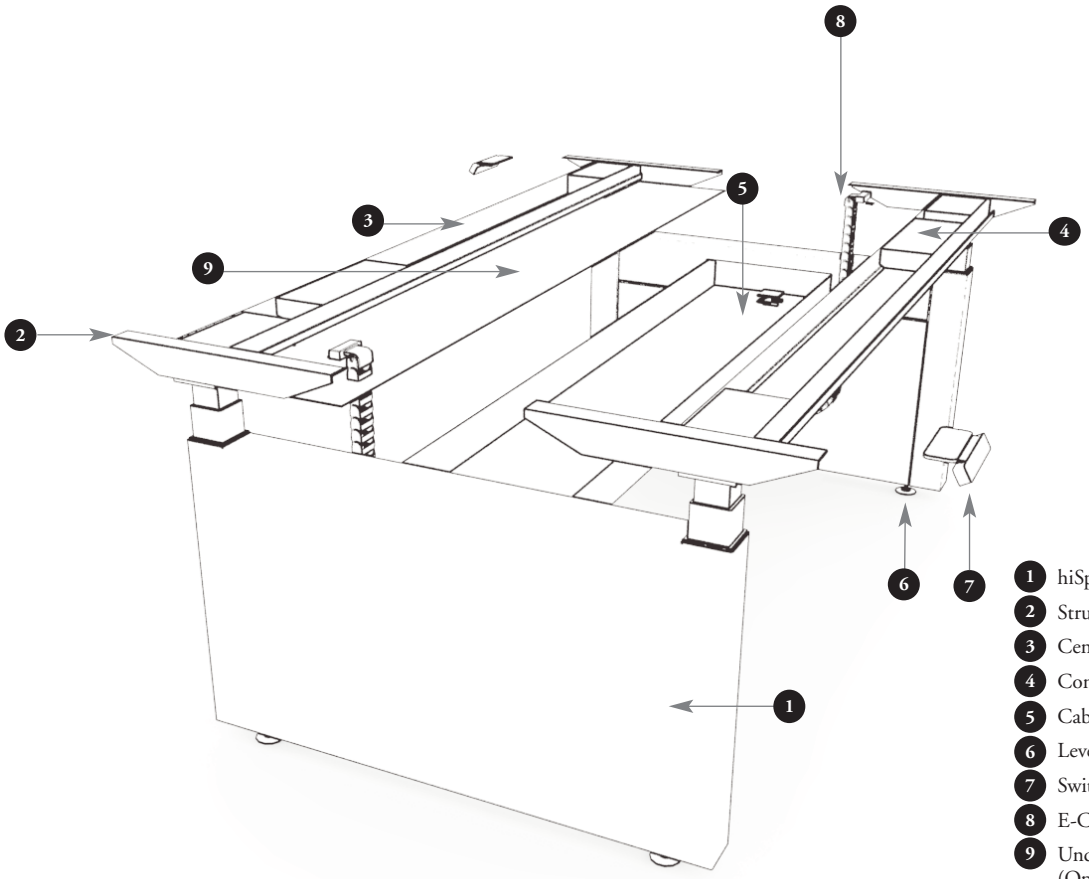
QUANTITY	COMPONENTS	DESCRIPTION	LIST PRICE	EXTENDED PRICE
1	HHBFYS39072	hiSpace Universal Frame, Three Sections, Extended Range Electric (25"-50"), 60"d x 72"w	15397	15397
3	HHBFCC172	hiSpace Cable Tray Cover , without Screen Provision, 72"w	275	825
6	HHBWRL30725	hiSpace Rectangular Worksurface, 30"d x 72"w, with Center Electrical Grommet, with Right Grommet 5" Gap	1035	6210
6	HHBCDG2272	hiSpace Desk Edge Screen – Glass, 22"h x 72"w	649	3894
1	HHBEBF8TMID072	hiSpace Base Feed, 8 Wire Isolated Ground, Mid, Whip Length 72"	285	285
1	HHBEPH8T072	hiSpace Power Harness, 8 Wire Isolated Ground, 72"l	207	207
6	HHBEEC	hiSpace e-Chain Vertical Wire Manager	245	1470
2	HHBEPB8T	hiSpace Power Box, 8 Wire Isolated Ground	328	656
6	YEPD6	Power Rod, Under-Worksurface Mount w/ Cable Tray	270	1620
			TOTAL	30564 LIST

Finishes: Source Laminate Worksurface, Frost Glass Screens

Projek Stool Seating not included in price.

understanding hispace height-adjustable bench frames

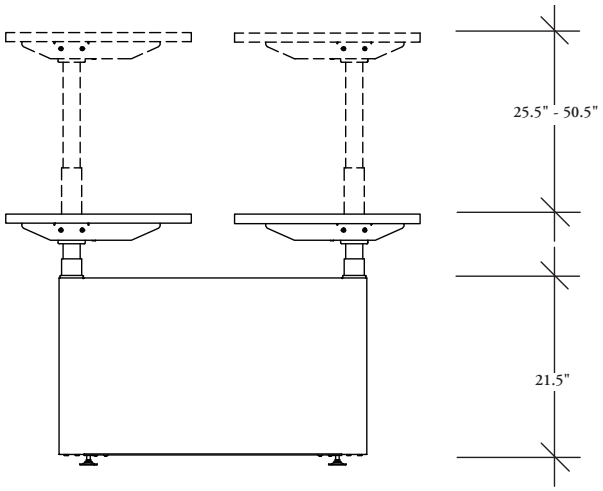
hiSpace Height-Adjustable Bench can be specified with 1-8 sections providing 2-16 person workstations.



1. hiSpace Leg w/ attached Gable
2. Strut
3. Center Channel
4. Control Box
5. Cable Tray
6. Leveler
7. Switch
8. E-Chain (Optional)
9. Under Worksurface Cover (Optional)

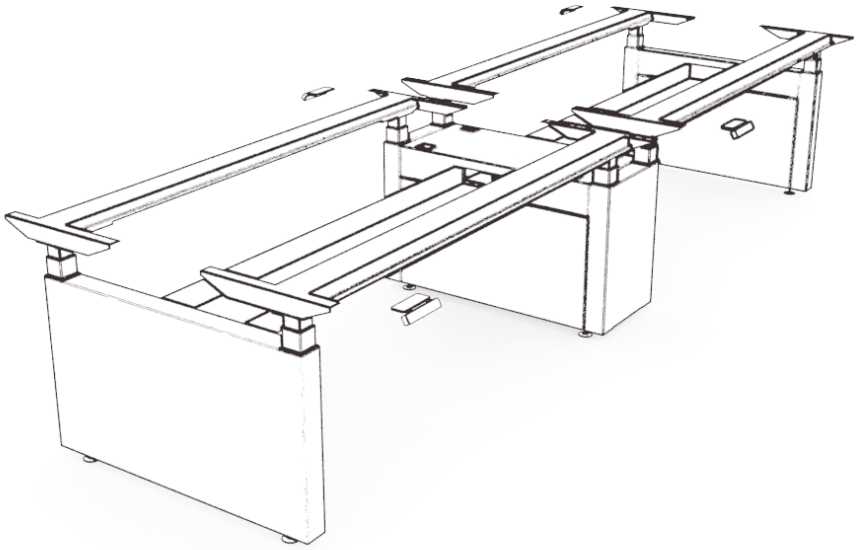
height adjustment ranges

The hiSpace Height-Adjustable Bench frame ranges are 25.5-50.5".

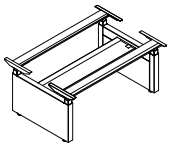


hispace frame basics

hiSpace Height-Adjustable Bench can be specified with 1-8 sections providing 2-16 person workstations.

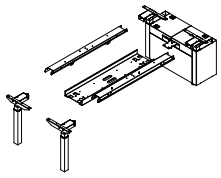


hiSpace Two Sections Shown



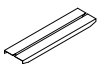
hiSpace Universal Frame (HHBFYS)

- Available with 1-8 sections creating 2-16 workstations
- Used with 2-16 worksurfaces to create a bench
- Available in depths of 48" and 60" and widths 48-72" in 6" increments
- Available with Extended Range Electric (25-50")
- 3" leveling capability
- Display switch has three programable settings and a cool red display screen with digital capability
- Available in Platinum



hiSpace Frame Reconfiguration Kit (HHBFRK)

- Available as Mid Kit to expand, End Kit to expand and End Kit to split
- Available in widths of 48"-72" in 6" increments
- Available with Extended Range Electric base mechanism or without Base Mechanism
- Available in Platinum



hiSpace Cable Tray Cover (HHBFCC)

- Available with or without Screen Provision
- Available in widths of 48-72" in 6" increments
- Available in Platinum
- Available with Cover or Cover with Division

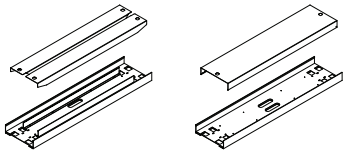
Mid Gable Grommet Cap (HHBFGC)

- Used to cover exposed cut-out locations on Mid Gable where e-Chain is not being used
- Specified individually per cut-out location
- Available in Platinum

planning with hispace frames

The Reconfiguration Kit is used for re-configuration, expanding the cluster or breaking down the cluster.

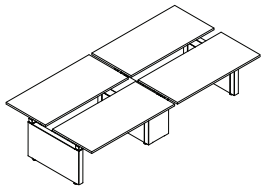
hiSpace cable tray cover



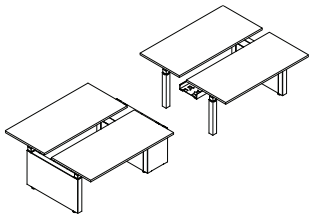
The hiSpace Cable Tray Cover is available with or without a screen provision.
If a Fixed Center Screen is specified a screen provision must be specified.

mid kit, expanding the cluster

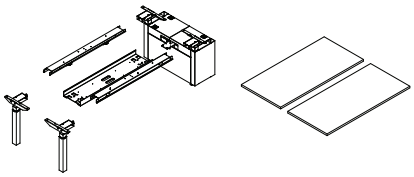
Expanding a two-section cluster



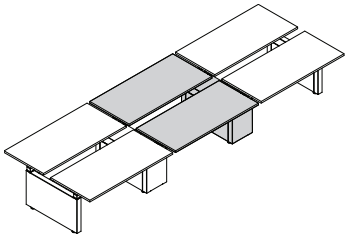
Step 1: Disconnect sections



Step 2: Add Mid Reconfiguration Kit and Worksurfaces (Specified Separately)



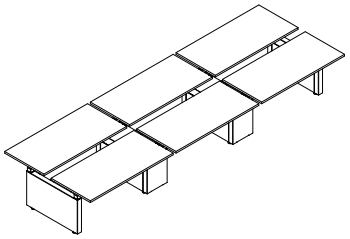
Three-section cluster



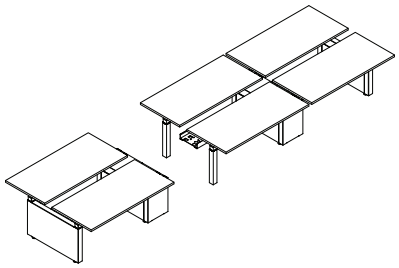
planning with hispace frames (continued)

end kit, breaking down the cluster

Shortening a three-section cluster



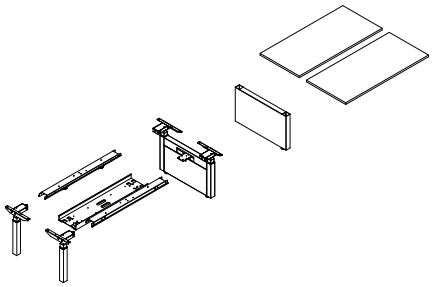
Step 1: Disconnect the section



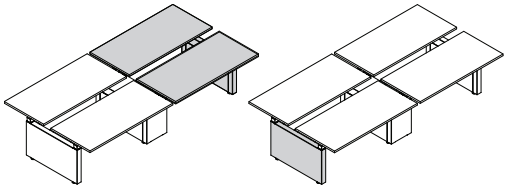
Expand

Split

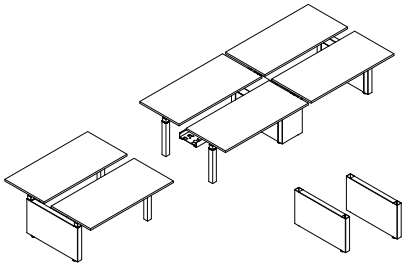
Step 2: Add End Reconfiguration Kit and Worksurfaces (Specified Separately)



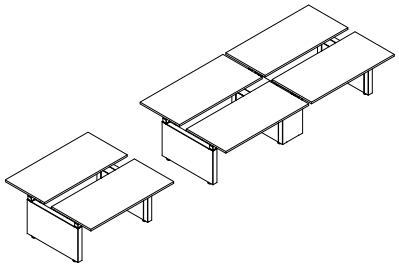
Two, two-section cluster



Step 2: Add Mid Split Reconfiguration Kit and remove Mid Gable



One, two-section and one-section cluster

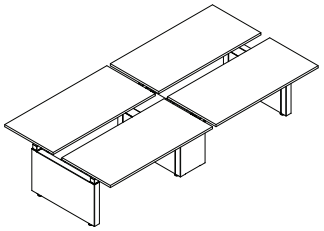


planning with hispace frames (continued)

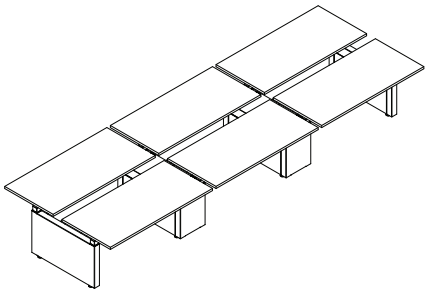
frame depths

hiSpace 48" and 60" deep frames use the same frame structure so are identical in depth. The overall bench depths are achieved through the depths of the worksurface.

Example 2 sections = 4 workstations



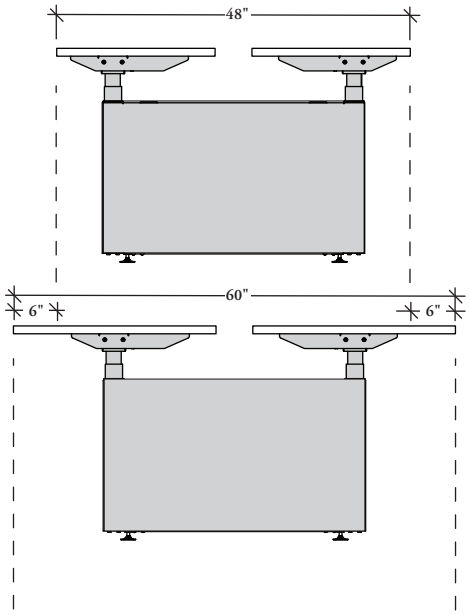
Example 3 sections = 6 workstations



48" Frame depth

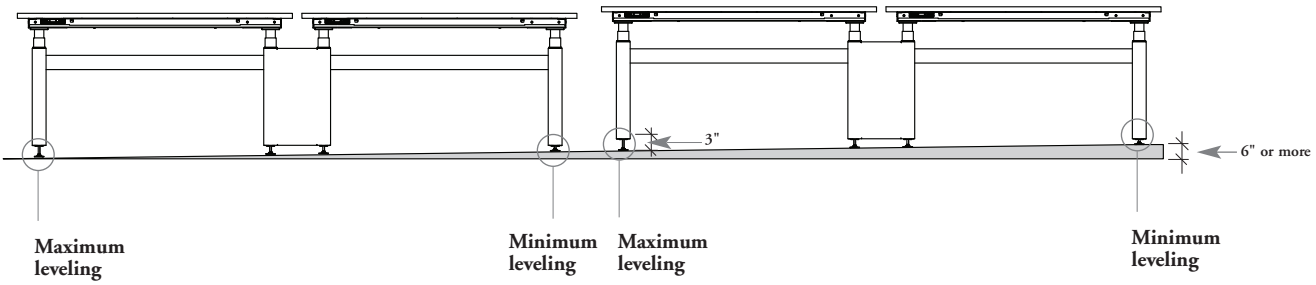
60" Frame depth

(Same frame as 48" depth but with deeper worksurfaces)



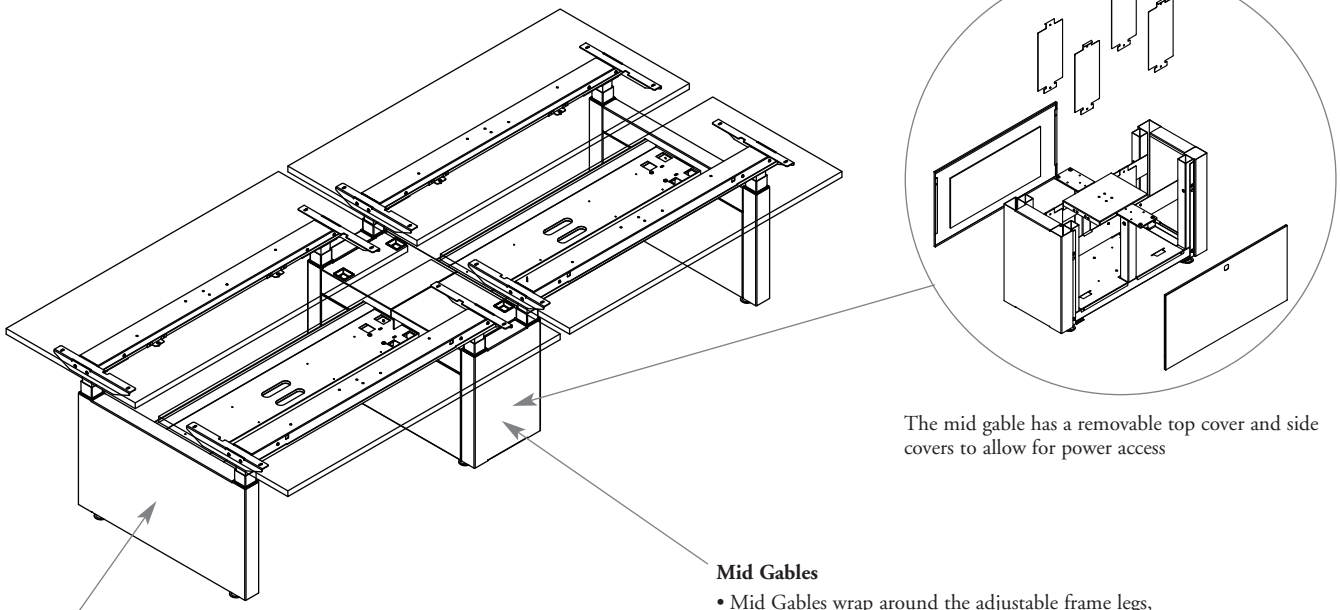
leveling

- hiSpace Height-Adjustable Bench Frames allow for 3" of leveling (when more than 3" of leveling is required, a break in the bench run is necessary)
- A site check prior to order is required to determine floor levels



planning with hispace frames (continued)

The Universal Frame includes a number of end and mid gables depending on stations specified.



The mid gable has a removable top cover and side covers to allow for power access

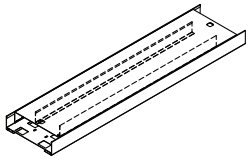
End Gables

- End gables wrap around and align with the legs of the frame, add stability and create a seamless aesthetic
- Two end gables are included with all runs, regardless of section quantity ordered

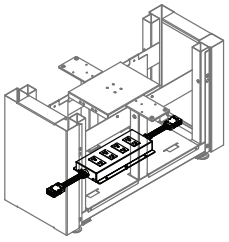
Mid Gables

- Mid Gables wrap around the adjustable frame legs, and include a two piece metal cap with four cut-outs to allow for easy access and optional e-Chain vertical wire management
- Power Poles are optional and only available in the mid gable
- Creates enclosed area to conceal and store excess wires and modular cables
- The mid gable has a removable top cover and side covers to allow for power accesss

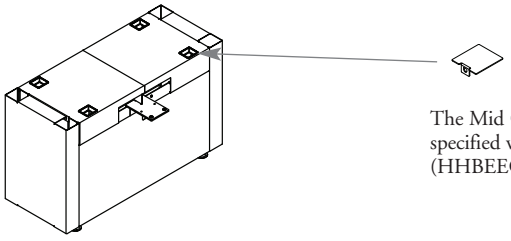
hiSpace Cable Tray Cover



The hiSpace Cable Tray Cover is available with or without cable division. The division allows for divided power and data routing throughout the Cable Tray



The mid gable includes a bracket to mount Power Box electrics

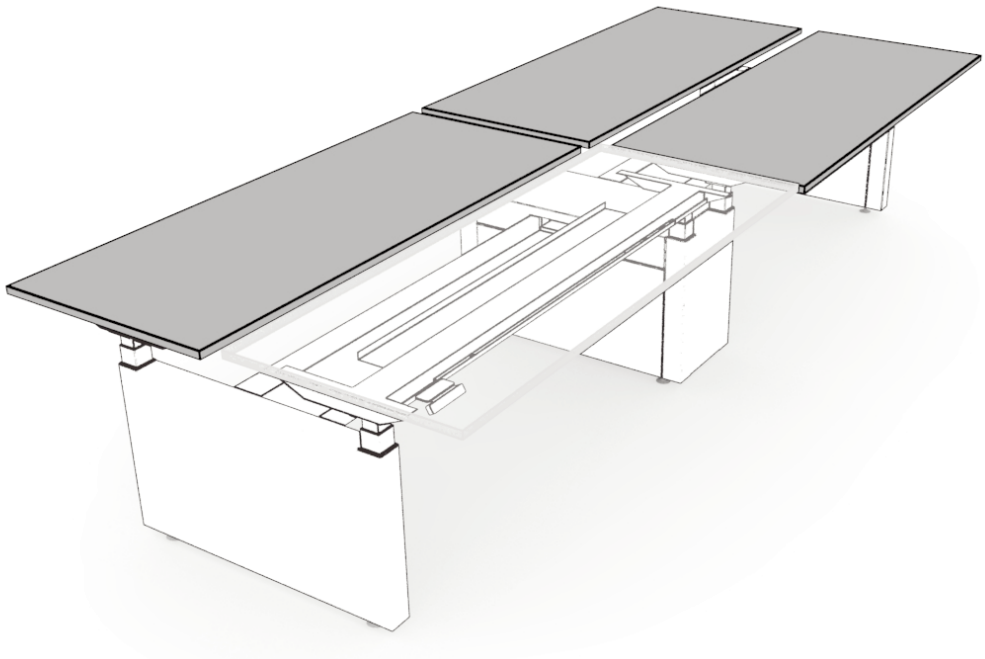


The mid gable includes four cut-outs to ensure the e-Chain is protected from any interference

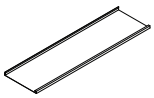
The Mid Gable Grommet Cap (HHBFGC) is specified when e-Chain Vertical Wire Managers (HHBEEC) are not required in the Mid Gable

hispace worksurface basics

hiSpace Rectangular Worksurfaces are available with a 3" or 5" center gap to accommodate casual screens. Various levels of power accessibility are available through the choice of worksurface.

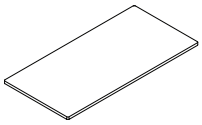


hiSpace Rectangular Worksurface with 3" gap shown



hiSpace Under Worksurface Cover (HHBWUC)

- Available in widths of 48-72" in 6" increments to match the frame widths
- Attaches to the center channel and conceals wires and power bars
- For use with Worksurface Wire Loom (YESL), which is available from Complements: *Teknion's Ergonomics & Accessories* Program.
- Finished in Platinum

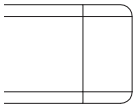
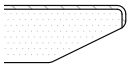
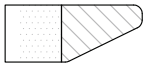
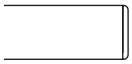
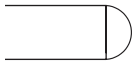


hiSpace Rectangular Worksurface (HHBWRL)

- Available in depths of 24" and 30" and widths of 48-72" in 6" increments to match the frame widths
- All depths are nominal; actual depths are either 1 ½" or 2 ½" (for 3" or 5" overall gap) less to allow for desk mounted or fixed center screens; see screen section for screen details
- All widths are nominal; actual widths are 2" less to allow a 1" gap on each side to prevent pinch points
- Center Electrical Grommet options and additional Pass Through Grommet locations available

hispace worksurface basics (continued)

edge profiles

	Source Laminate	Foundation Laminate Surface	Seamless Color Surface
Flat (8) All Edges 		✓	
Seamless Flat (G) All Edges 			✓
Full Knife (H) User Edge 		✓	
Seamless Full Knife (X) User Edge 			✓
Straight Trim (6) All Edges 	✓	✓	
Bullnose Trim (2) User Edge 		✓	

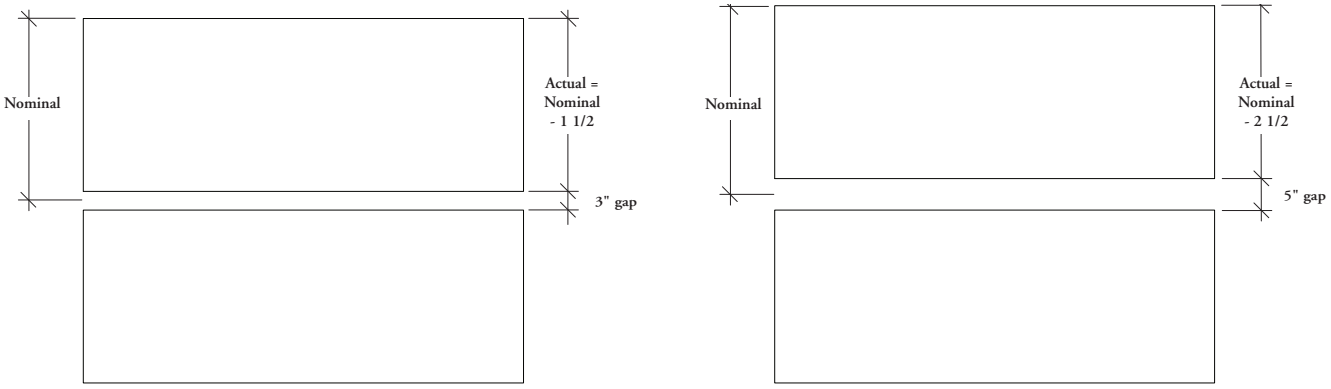
planning with hispace worksurfaces

The following should be considered when planning with hiSpace Height-Adjustable Bench Rectangular worksurfaces.

depths and widths

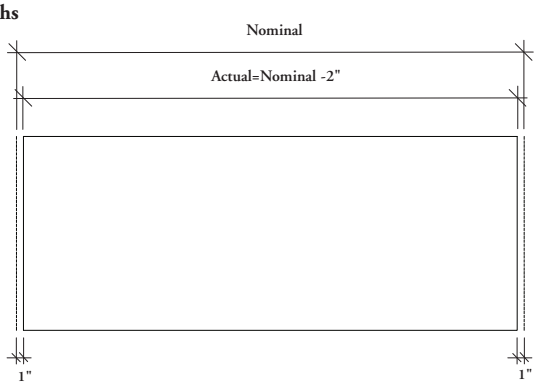
Worksurface depths and widths are nominal.

Depths



Actual depths are 1 1/2" or 2 1/2" less to provide a 3" or 5" gap between face to face users for space division.

Widths

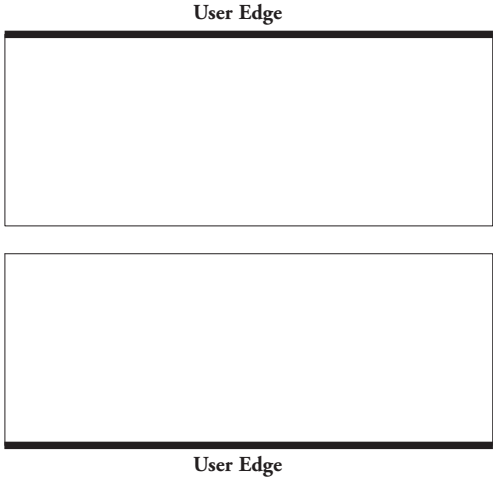


The actual width is 2" less than the nominal width to allow for a 1" gap on each side of the surface for height-adjustable safety precautions. This results in a 2" gap between lateral worksurfaces.

edge profiles

Full Knife and Bullnose edge details are only on the user side. Non-user edges are always Flat Trim.

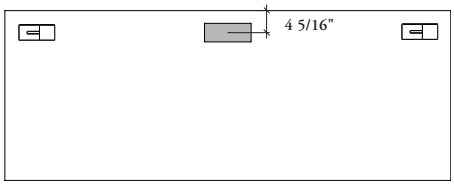
• Bullnose user edge detail will always have a straight profile on the ends.



planning with worksurfaces (continued)

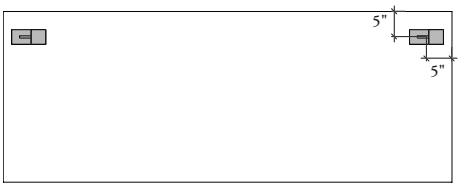
grommets

- Two cut-out options are available:
  - Central Electrical Grommet
  - Pass Through Grommet
- Pass Through Grommets are available left, right and/or center, the Central Electrical Grommet is only available in the center



Central Electrical Grommet

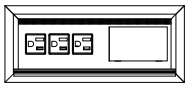
- Central Electrical Grommet are centered 4 5/16" on center from the rear edge
- Central Electrical Grommet must be plugged into modular power. It **cannot** be connected to a Power Rod/Power Bar



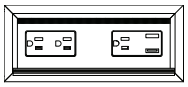
Pass Through

- Grommets are located 5" on centre from both side and rear edges
- When a Center Electrical Grommet is specified a pass through grommet **cannot** go in the center location

Central Electrical Grommet options

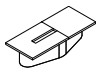


3x Receptacles and Data



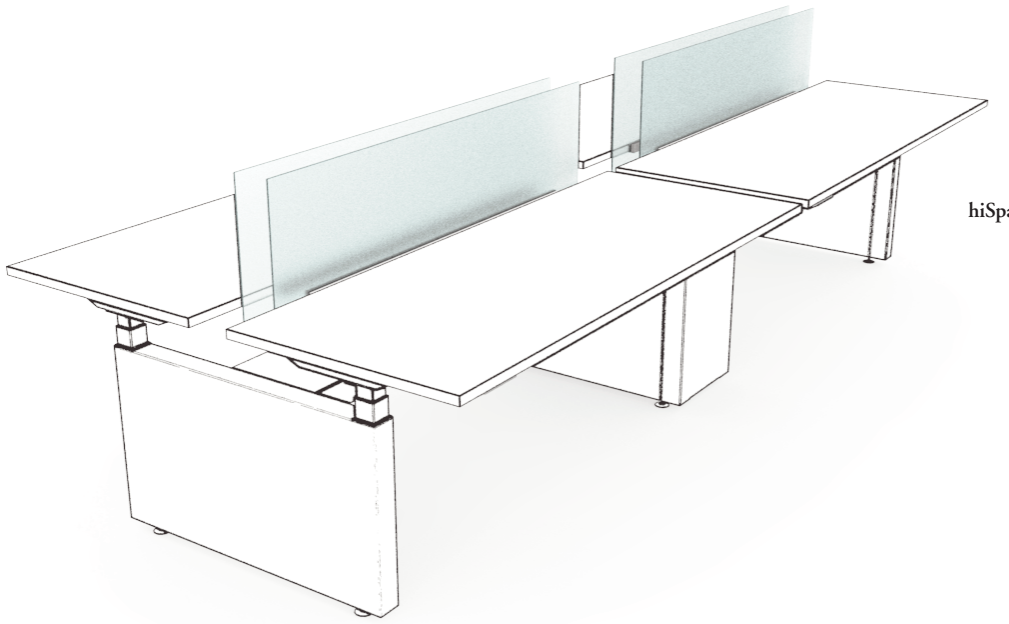
2x USB, and 3x Receptacles

Pass Through Grommet



hispace center casual screen basics

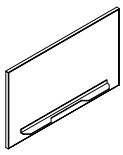
hiSpace Rectangular Worksurfaces are available with a 3" or 5" center gap to accommodate casual screens. Various levels of power accessibility are available through the choice of worksurface.



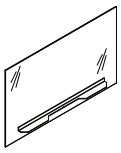
hiSpace Desk Edge Screen-Glass shown

desk screens

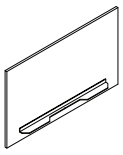
- Mount flush to the rear worksurface edge to create privacy and physical separation at any height.
- A 5" gap between worksurfaces must be specified
- Available in glass, fabric or solid finishes
- Available in heights of 13" and 22" to achieve 42" and 51" datum heights when mounted to the worksurface at 29" height
- Available in widths from 48-72" in 6" increments
- Trim bracket available in Foundation, Mica and Accent finishes



hiSpace Desk Edge Screen – Fabric (HHBCDF)
- Available in Panel fabric grades 1-7, Grade A and Customers Own Material



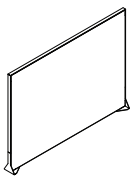
hiSpace Desk Edge Screen – Glass (HHBCDG)
- Available in Clear or Frosted Glass



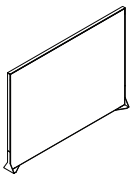
hiSpace Desk Edge Screen – Solid (HHBCDS)
- Available in Source Laminate or Seamless

center casual screens

- Mounts to the accessory beam on a Cable Tray to provide privacy and space division
- Available 33.5" high to achieve a 51" high datum when mounted to the accessory rail
- Available in fabric and solid finishes



hiSpace Center Casual Screen- Fabric (HHBCCF)
- Available in Panel fabric grades 1-7, Grade A and Customers Own Material

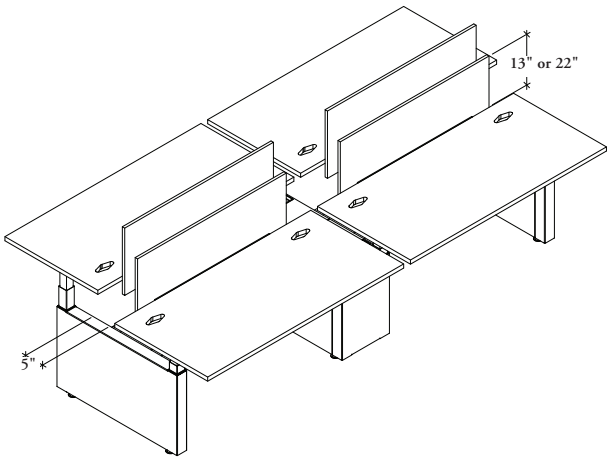


hiSpace Center Casual Screen- Fabric (HHBCCF)
- Available in Source Laminate or Seamless

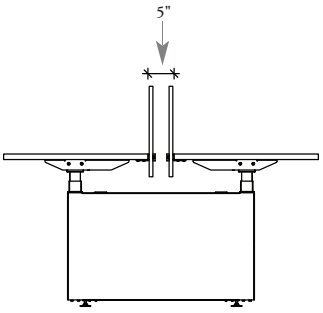
planning with hispace desk edge screens

The following should be considered when planning with hiSpace Desk edge Screens.

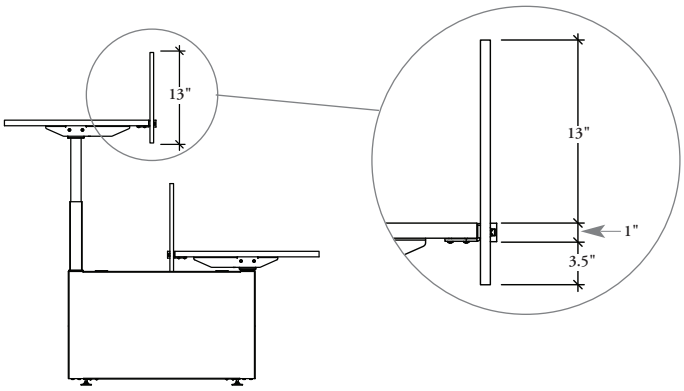
There are two screen heights available; 13" and 22" above worksurface (and 3.5" below).



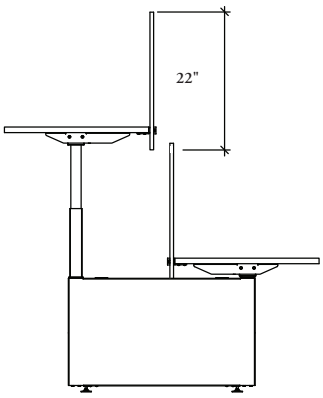
- The Desk Edge Screen is mounted flush to the rear edge of the worksurface
- Pass through grommets will be required for wires to be routed below the worksurface



Desk Edge Screens must be used with a 5" worksurface gap, they cannot be used with a 3" gap.



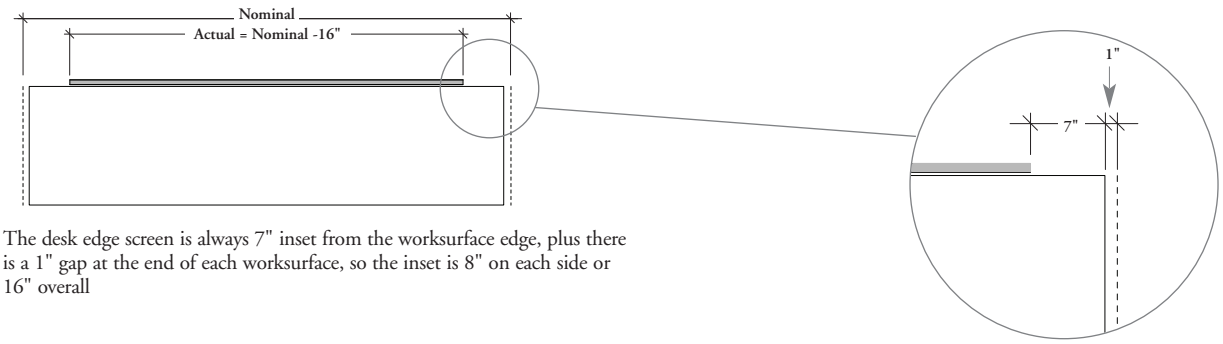
The 13" high Desk Edge Screen does not provide full privacy due to the extended range heights.



The 22" high Desk Edge Screen provides full privacy between users.

actual vs. nominal sizing

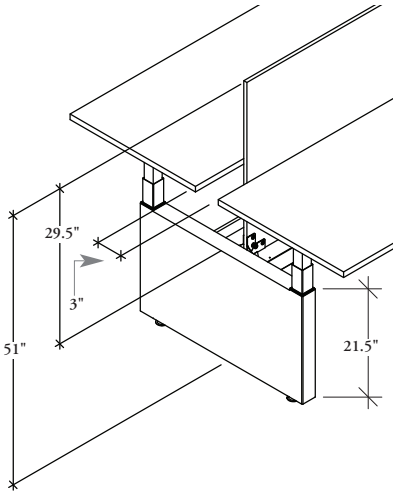
When Specifying the Desk Edge Screen it is important to consider nominal vs. actual sizing.



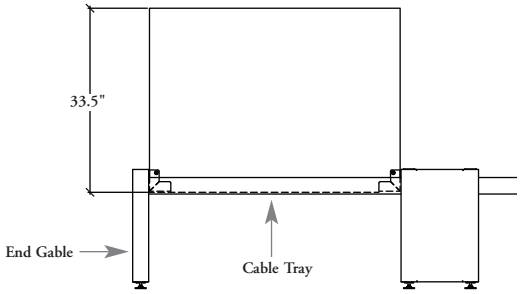
The desk edge screen is always 7" inset from the worksurface edge, plus there is a 1" gap at the end of each worksurface, so the inset is 8" on each side or 16" overall

planning with hispace center casual screens

The following should be considered when planning with hiSpace Center Casual Screens.



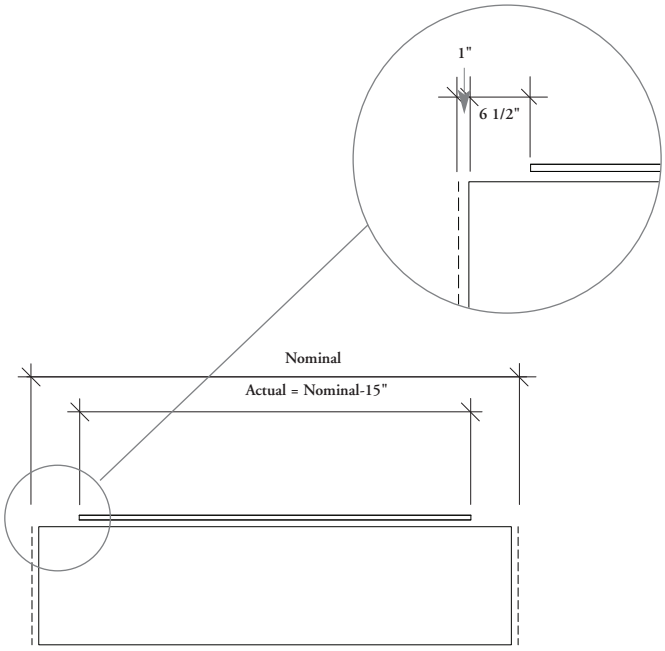
- The Center Casual Screen is 33.5" high and has an overall 51" high datum height
- Must be used with a 3" gap worksurface



- The Center Casual Screen is 33.5" high. As the screen mounts in the Cable Tray, overall Screen exposure is 29.5" when a Cable Tray is used

actual vs. nominal dimension

When specifying Center Casual Screens, it is important to consider nominal vs. actual sizing.



The Center Casual Screen is 6 1/2" less than the worksurface width on each side. Worksurfaces also have a 1" gap on each side so the overall actual width is 15" less then the nominal width.

planning with hispace center casual screens (continued)

The following chart outlines the nominal vs. actual width of Desk Edge Screens and Center Casual Screens.

Desk Edge Screens

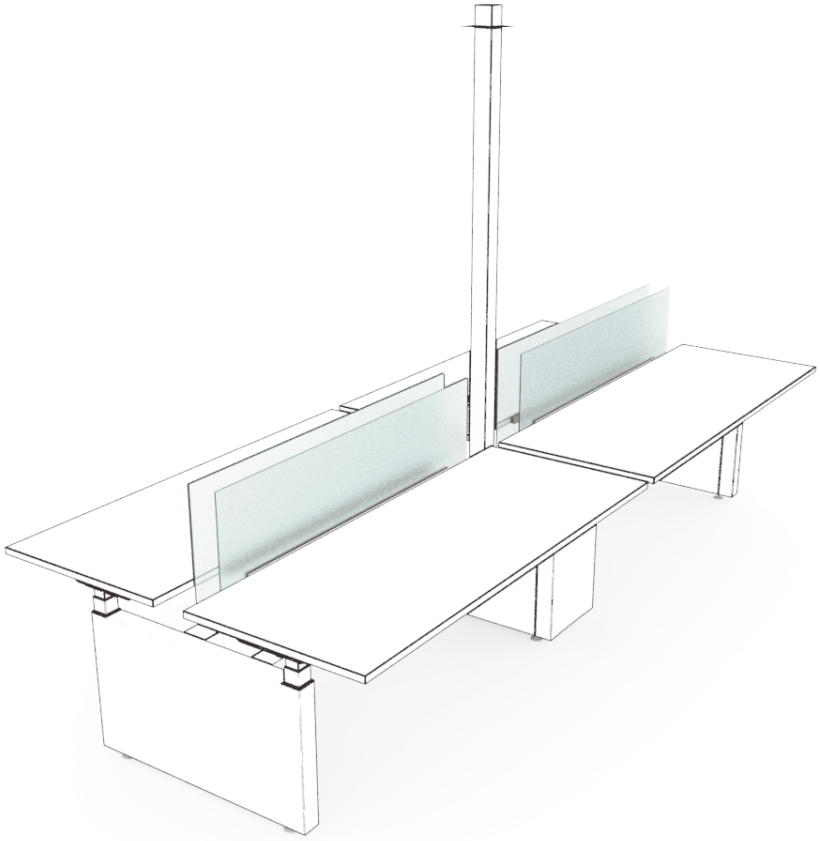
Nominal Widths	Actual Widths
48	32
54	38
60	44
66	50
72	56

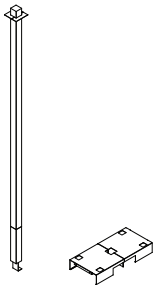
Center Casual Screens

Nominal Widths	Actual Widths
48	33
54	39
60	45
66	51
72	57

hispace power pole and base feed basics

Power and data enter the hiSpace Height-Adjustable Bench from the ceiling through a Power Pole and Ceiling Feed or from the floor with a Base Feed.





hiSpace Power Pole (HHBEPP)

- Routes a ceiling feed and data cables from the ceiling to the workstation
- Used in Mid condition only
- Heights available are 96" and 120"
- Power Pole includes replacement mid top cover with power pole provision and is always finished in Platinum

hiSpace Base Feed (HHBEBF)

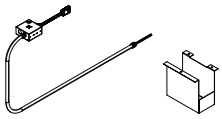
- Provides routing for power from the floor to a Power Box with the Cable Tray
- Cable riser locations include 24", 48",60" and 72"
- Whip lengths available include 72", 96", and 120"
- Wire systems include 4-Wire, 8-Wire Isolated Ground (8T) and 8- Wire Dual isolated (8K)

hiSpace Chicago Base Feed (HHBEBFCH)

- Required for city of Chicago electrical code requirements
- Whip length available is 72"

hiSpace Ceiling Feed (HHBECF)

- Routes power from the ceiling to the workstations
- Lengths available are 96" and 120"
- Wire systems include 4-Wire, 8-Wire Isolated Ground (8T) and 8- Wire Dual isolated (8K)



hiSpace Split Base Feed (HHBEBFS)

- Provides routing for power from the floor to a Power Box with the Cable Tray and is wired into the building power source in two locations for New York City wiring restrictions
- Whip lengths available include 72", 96", and 120”
- Wire systems include 4-Wire, 8-Wire Isolated Ground (8T) and 8- Wire Dual isolated (8K)
- Cable riser locations include 24", 48",60" and 72"

hiSpace Cable Riser (HHBECR)

- Used to route power and data cables into a workstation from the floor
- Available in Foundation and Mica colors

hiSpace Chicago Ceiling Feed (HHBECFCH)

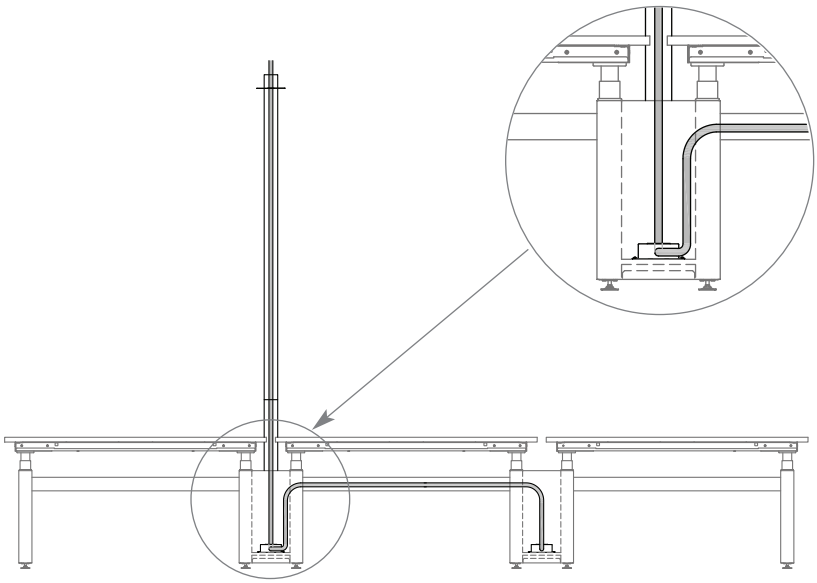
- Required for city of Chicago electrical code requirements
- Lengths available are 96" and 120"

planning with hispace power poles and base feeds

The following should be considered when planning with hiSpace Power Poles and Base Feeds.

power pole

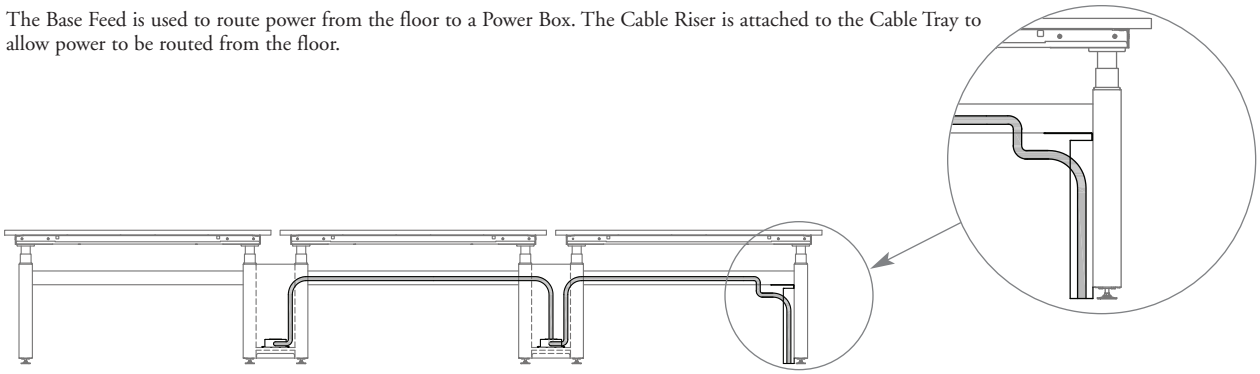
The Power Pole routes a Ceiling Feed and data cables from the ceiling to a workstation.



Power Poles attach to the mid gable structure to allow power to be routed from the ceiling.

base feed

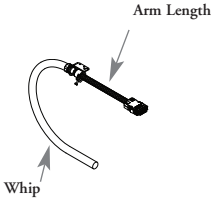
The Base Feed is used to route power from the floor to a Power Box. The Cable Riser is attached to the Cable Tray to allow power to be routed from the floor.



cable riser

When a floor monument does not align with the Mid gable, a Cable Riser is required to route the base feed to the Mid Gable. It can be placed anywhere along the cable tray dependent on where the floor monument location is located on the floor.

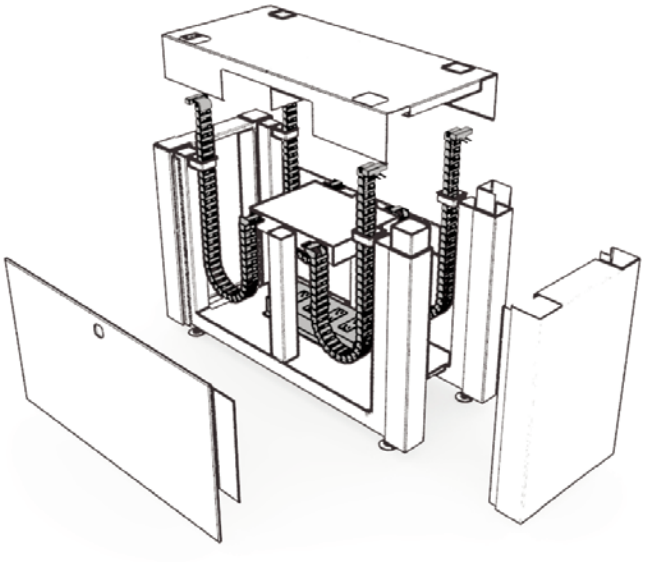
- Specified Cable Riser location determines arm length
- Cable Riser location is the maximum distance a floor mounted can be located and still have the base feed reach the Power Box
- Actual Arm Length is calculated as Cable Riser Location (Mid = 0) +12

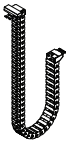


hispace wire management basics

hiSpace Height-Adjustable Bench provides a module electrics option for power and data distribution.

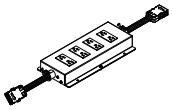
The following outlines the basic components of modular electrics.





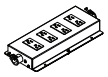
hiSpace e-Chain Vertical Wire Manager (HHBEEC)

- Available in Black or Platinum



hiSpace Power Box (HHBEPB)

- Mounts only to the mid gable
- Wire systems available include 4-Wire, 8-Wire Isolated Ground and 8-Wire Dual Isolated
- Outlet configurations available are; Circuit 1, Circuit 1 & 2, Circuit 1 & 3 (8T only), Circuit 1 & 5 (8T or 8K only), Circuit 1 & 6 (8K only), Circuit 1,2,3 & 5 (8T only), Circuit1,2 & 5 (8T or 8K only), Circuit 1,2,5 & 6 (8K only), Circuit 2, Circuit 2 & 5 (8T or 8K only), Circuit 2 & 6 (8K only), Circuit 3 (8T only), Circuit 3 & 5 (8T only), Circuit 5 (8T or 8K only), Circuit 5 & 6 (8K only), Circuit 6 (8K only)

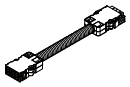


hiSpace Chicago Power Box (HHBEPBCH)

- Required for city of Chicago electrical code requirements

hiSpace Power Harness (HHBEPH)

- Routes power from one power module to another
- Wire systems available include 4-Wire, 8-Wire Isolated Ground or 8-Wire Dual Isolated Ground
- Lengths available are 72", 84", 96" and 120"



hiSpace Extension Harness (HHBEEH)

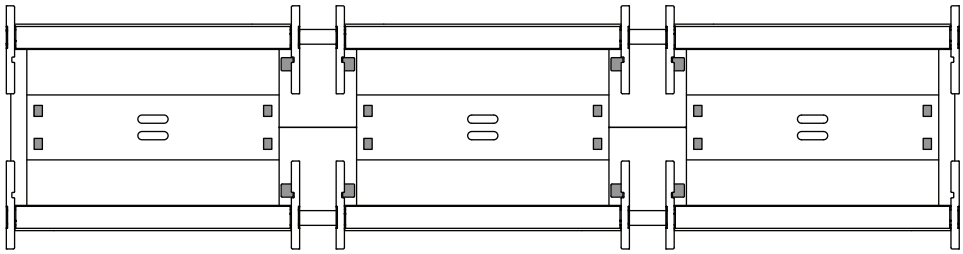
- Used when power needs to be routed beyond a Mid Gable that requires no power routing
- Wire systems available include 4-Wire, 8-Wire Isolated Ground or 8-Wire Dual Isolated Ground
- Available 72" length

planning with hispace wire management basics

The following should be considered when planning with hiSpace Wire Management.

e-chain

The following locations are available when planning with hiSpace e-Chains. There are four locations in the Mid Gable and four locations on the Cable Channel. This allows end section users to have up to three e-Chains per station and mid section users to have up to four e-Chains per station.



Note: If a single hiSpace frame is specified there are only four locations total on the cable channel allowing each user to have up to two e-Chains.

extension harness

The Extension Harness is used when not all Mid Gables require power. The Harness allows for power routing to pass over Mid Gables that do not require power.